## CITY OF WINNIPEG

## ERECTION AND REMOVAL OF BUILDINGS FIRE LIMITS ETC.

# By-Law No. 7528

A By-Law of the Cay of Winnipeg to regulate the construction, repeir, removal and impercion of building in the Cay of Winnipeg, and to perents accident by fire. This By-Law shall be known and may be referred to and cited as "The Winnipeg Building By-Law of 1913."

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#### Extracts from the Winnipen Charter

A copy of any Ry-Law, written or printed, and under the scal of the City, and scribed by the Clerk, or acting City, is, to be a true approximate the deemed authoritie, and he received as prints faits evidence in "Pay Cover of Justice, without good of the scal or signature, would be the property of the scale or signature, whose prints of the scale or the signatures has been freeged. 195c. 485, Winnberg Catteria.

Frinted decessories, purporting to be printed expire of any or all bylears passed by the Cosmill, and properting to be neithed by the subherity thereof, shall be admitted as print force evidence in all Courts in this Purvince of such hy-laws, and of the due passing thereof. (New. 481, Washing Charles)

### BY-LAW No. 7528

A By-faw of the Gity of Winnings to regulate the construction, repeir, removal and inspection of buildings in the Gity of Winnings, and to prevent accidente by fire. This By-faw shall be known and may be referred to and cited as "The Winnings Building By-Law of 1913."

(Passed January 13th, 1913.)

The Municipal Council of the Corporation of the City of Winnipeg, in Council assembled, enacts as follows:—

- DEPARTMENT OF THE BUILDING INSPECTOR. There is hereby created in the City of Winnipeg a Department to be called the "Department of the Building Inspector," which shall be charged with the enforcement of the provisions of this By-law, as hereby enacted, for the regulation, survey and inspection of buildings, and the protection of same against fire or accident.
- STAFF. The staff of said Department shall consist of a Chief, to be known as the Building Inspector, and as many Assistant Building Inspectors and other subordinates as may be found necessary from time to time.

Neither the Building Inspector nor any Assistant Building Inspector shall be employed or engaged in any other business, or be interested in any work for buildings, or for furnishing materials.

- QUALIFICATIONS. In all future appointments the Building Inspector shall be an Architect, or a practical man of experience in building construction. Assistant Building Inspectors shall be men of experience in building construction in its several branches.
- 4. APPOINTMENT OF DEPUTY. In case of the temporary absence or disability of the Building Inspector and in default of an appointment being made by the Council, or Board of Control, he may appoint one of the Arsistant Inspectors as his deputy, who shall during such absence or disability, exercise all the powers of the Building Inspector.

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- 5. SUSPENSION OF BUILDING INSPECTORS. Any one or more of the Assistant Building Inspectors may for any neglect of duty be unspeeded by the Building Inspector, and the suspension and cause of same shall be at once reported to the Fire, Water, Light and Fower Committee or Sub-Committee of Council having jurisdiction over the Department, who shall take action on the matter as may be deemed fit.
  - 6. POWERS OF BUILDING INSPECTOR. The Building Inspector shall exercise, in addition to the powers under this By-Law, all the powers and authorities contained in the Statutes of Manitoba known as the "Public Buildings Act" or any amendments thereof.
  - 7. DUTIES OF BUILDING INSPECTOR. It shall be that yo the Building Inspector, as Chief of his Department, to issue permits for the erection, enlargement or alteration of buildings, in accordance with the provisions of this By-Law; keep a record of the same, with a description of the construction, sanitary appliance, beating apparatus, elevators, fire excepts, and all matters relating to the regulation, construction or alteration of buildings in the CE.
  - B. ISSUANCE OF PERMITS. It shall be the days of the Building leaders; on screegi or langulation for a permit, accompanied by the plans and specifications for a permit, accompanied by the plans and specifications for the proposed building or alternative, to carefully examine the same, and allowed the property of the plant of the property shows on said plans and described as said appelications, and if they are in accordance with the provisions of this By-Law and of the By-Laws of the City of Winninger Arieling to assistation. If they do not conform with the day of the person obtaining a permit to have same placed in a completions place on the size of the building which said permit towers, or a metal tag bearing the number of said permit must be maintained in a completions place until the completion must be maintained in a completion place until the completion of the completion of the conformation of the completion of t
  - It will be the duty of the Health Inspectors and Police Officers to report to the Building Inspector all cases when these permits are not placed in a conspicuous place on or at any building in course of construction, and the Building

Inspector will then take such steps as will be necessary to By-Law insure the above requirements. 7528

- 10. REVOCATION OF FERMITS. Every permit shall be subject to revescion should the Busiling Inspector, or any of his Assistant Inspectors, ascertain that the work being carried on under such permit in being done in a manner that does not comply in every respect, with the glass and specified the subject of the permit shall be in writing, and shall be served upon the owner or his agent, or in his abstance on any one doing any of the work, and fire such revocation of permit, all partice doing any work in or about such structure or premise shall reader themselves hable to the penalties of his By-Law, and persons attempting to proceed with any of the work harden death with.
- 11. BUILDINGS ERECTED CONTRARY TO BY-LAW. If the Building Inspector shall detect that any building or addition to any building or any structure or part of a structure has been erected contrary to the provisions of this By-Law, or any other By-Law of the City of Winnipeg relating to sanitation, the said Building Inspector is hereby anthorized to pull down in whole or in part at the expense of the owner thereof, after giving twenty-four hours notice to the owner or agent to pull down, remove or make the same conformable to the By-Law, any building or structure or such part thereof as may in the opinion of the Inspector be constructed, repaired or placed in contravention of this By-Law, or any By-Law of the City of Winnipey relating to sanitation, and the cost of the same may be certified to the Tax Collector, and be added to the taxes on the land occupied by such building and be collected as other taxes, after giving due notice thereof to the owner or noent.
- 12. EXAMINATION OF BUILDINGS. The Building Inapetor and every Assistant Inspector, upon showing his badge of office, shall have the right to enter and examine all buildings in course of construction, alteration, repair or removal as often as practicable, or any building damaged by fire, or through accident, with a view to ascertaining the cause of the

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By-Law accident and the condition in which the fire or accident has left the building, or any building alleged to be unsafe or a menace to life and limb, and in case of any violation of the provisions of this By-Law and the refusal to comply therewith, the Building Inspector shall immediately notify the owner, agent, contractor, lessee, occupant or person having charge or possession of such building, or any part thereof, to make the same safe and secure or to take down and remove the same, or to make the same conformable to the provisions of this By-Law, and every such owner, agent, lessee, occupant or person having charge or possession thereof, as notified, who fails within twenty-four (24) hours to comply with such notice, shall be subject to all the penalties of this By-Law, and every subsequent failure or neglect for twenty-four hours after every similar subsequent notice shall be deemed a new and subsequent offence, and shall render the owner, agent, contractor, lessee or other person having charge thereof, so notified and making default, liable again to the penalties of this By-Law.

> 13. UNSAFE CONDITION OF BUILDINGS, etc. The Building Inspector shall have authority, if he finds any building or part thereof, or any staging, fence or other structure connected with a building or any fence or other structure, in such a condition as to endanger surrounding property or the lives of citizens and whereby the immediate adoption of precautionary measures, or by the demolition of the dangerous portion of said building, staging, fence or structure, such danger may be averted, to cause such precautions to be taken, or demolition to be made, or cause such work to be done as may be necessary to render such building or part thereof, or staging, fence or structure safe, after having given notice, either in writing or personally to the owner, contractor, lessee, occupant, or agent of said building, and to post up signs to warn the public of the unsafe condition of the building, staging, fence or structure, and the Building Inspector shall have the right, upon refusal or default on the part of the owner, contractor, lessee, occupant, or agent, to comply with the said notice, to enter such building or premises with such assistants as he may require and have the building, fence or structure secured or taken down, and the public protected at the expense of the owner, contractor, or other party interested, and the cost incurred by the Inspector in the performance of such work, shall be certified to the Tax

Collector and he added to the taxes on the land occupied by By-Law son building, forence or survature and he collected as other 7528. Thought such work as hereinhelders mantisoned be urgent, and in the opinion of the Inspector requires to be done without the delay necessary in antilying the owner or other party interested, he shall have the right to have the work done and recover the cost of same as hereinheldere provided, without first evitor notice as alremaid.

- 14. POWERS OF BUILDING INSPECTOR RE-LATING TO CONSTRUCTION. The Building Inspector shall have full power to pass upon any question arising under the provisions of this Py-Law relabels on the manner of conregative full power of the property of the shall be required any building which has been reported, or is known by the Inspector to be in a dangerous condition in regard to its construction.
- 15. DUTIES OF CIVIC EMPLOYEES RELATIVE TO THIS BY-LAW. It shall be the duty of all officers, policenae, servants, workmen and agents of the Corporation of the City of Winnings, whenever required by the Mayor for the time being of the said City, og rive all possible aid or assistance in his or their power, to the Building Inspector of the City in the discharge of his duty under this By-Law.
- 16. MOLESTATION OF ANY PERSON ENFORCING REGULATIONS OF THIS BY-LAW. No person shall molest or obstruct or interfere with the said Building inspector, Police Officers or other persons acting in aid or assistance of such Building Inspector or Police Officers in the discharge of his or their duty under this By-Law.
- 17. CARRYING INTO BEFECT REGULATIONS OF THIS BY-LAW. It shall be lawful for any Police Officer in the said City and for the Building Inspector and his Assistant Inspectors to netter at III reasonable times upon any property subject to the regulations of this By-Law, in order to ascertain whether such regulations are complied with, or to enforce or to carry into effect the same.
  - CONTRAVENTION OF THIS BY-LAW BY THE BUILDING INSPECTOR. If the Building Inspector shall,
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By-Law contrary to the provisions of this By-Law, permit or wilfully neglect or refuse to prevent the erection, placing or repair, or alteration of any building or any erection, wholly or in part put up, erected, repaired, or altered or placed contrary to the provisions of this By-Law, or any By-Law of the City of Winniper. he shall be liable to the penalties of this By-Law.

- 19. RIGHT TO APPEAL. Should any question arise between the Inspector and the owner of any building or structure, or his legal representative, or should the said owner or his legal representatives object to any order or decision of the Inspector, or should the Inspector refuse to issue a permit as required by this By-Law, then such person or persons objecting to such order, decision, or refusal of the Inspector, shall have the right to appeal from said order, decision or refusal, within three days after such order, decision or refusal to the Board of Appeal as hereinafter referred to.
- 20. APPEALING AGAINST EXPENSE. Should the Inspector incur any expense other than provided for in Section 12 of this By-Law, the owner or his legal representatives shall have the right to appeal to the Board of Appeal as hereinafter referred to.
- 21. APPEAL TO BE IN WRITING. Any person appealing from any order, decision or refusal of the Inspector shall, within the time mentioned, give notice to the Inspector in writing, that he does so appeal,
- 22. BOARD OF APPEAL. The Board of Appeal shall consist of three members of the City Council. Appointment of the said Board of Appeal to be made annually by the City Council. No member shall sit or adjudicate on any case in which he is interested, and in the case of such disqualification or in the absence of one member, the other two members shall have the right to appoint a substitute, subject to the approval of the Fire, Water, Light and Power Committee. If more than one member of the Board be disqualified or absent, the Inspector shall appoint one substitute, the Appelant another and, if necessary, the Fire, Water, Light and Power Committee another, and the said parties shall have the same powers as the members of the Roard

- 23 BOARD OF APPEAL NOT TO ADJUDICATE ON By-Law QUESTIONS OF LAW. The said Baser shall not adjudence 7:58 on any question of law, but on all natures referred to them respecting the contractions of assume that the provide the contractions of any hundring or structure, or to say order, decision or refusal of any hundring or structure, or to say order, decision or refusal of the laspecto which has here objected to, and appealed from, as provided in Section B of this By-Law, the decision of the both parties among the refusal and building on the best and the best of the say of the s
- 24 REQUIREMENTS FOR PERMITS It shall be the day of every person or their agent or authorized representative, intending to erect, repar or after as houlding or any platform or stanger of housing to be used for straining or straining persons, or any tower or like construction in the City, to deposit with contract of the construction in the City, to deposit with the contract of the construction of the construction or tower or like construction that the contract of the contract
- 25 PLAN TO REMAIN ON FILE All plans shall remain can lies in the office of the Blooding Inspector until the completion of and building or structure, after which such plans and specifications may upon demands therefor be returned by except the plans and specifications of theatres, bearbase, be
- 26 PLANS WHICH MAY BE RETURNED OR DESTROYED. All plans other than those specially mentioned in the immediately preceding section, if not demanded by the parties depositing same within one year from the date of

#### ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

By-Law issuance of permit, may be destroyed by the Building Inspector 7528 The intention to destroy such plans shall be made public

- 27 PLANS TO BE DRAWN TO SCALE All plans and drawing shall be drawn to a scale of not less sha not explicit of an inch to the foot: is take on paper or tracing lines, or be blue partia, and all dystances and dimensions must be accurately figured and drawings must eviplicit and complete. Under segretal conditions another southern southe
- 28 WRITTEN APPLICATION TO BE MADE FOR PRINTI NO shoulding, pattern, strageg or other structure shall be commenced other a written permit has been struct herefor by the Build and Inspector. The application for such permit shall be in writing on forms to be obtained at the office of the Building Inspector, upon which from the applicant must give clearly and fully the information saxed and shall also give clearly and fully the information saxed and shall also give clearly and fully the information to be even from the proper of its adult, which information is to be verified by a statisticity declaration of the applicant where required by the Building Impeter.
- 29 PERMIT NOT TO BE 1'SUIDO UNILESS PLANS NO SPECIFICATIONS CONFORM TO BY-LAW II the matters mentioned as any application for a permit or if the desaring and specifications solutionized with such application, or all respects in accordance with the provisions of this By-Law, he shall not insue the permit therefor, but when such application, drawings and specifications contom to this By-Law, he fragetted that certify and approve of asses and the permit the imported that discretely and approve of asses and the permit the inspection affect of some and the permit of the perm
  - 30. APPROVED COPIES OF THE PLANS AND SPECIFICATIONS TO BE KEPT ON THE WORKS. Before a permit in stude to any applicant, said appheant shall furnash the Bulding Inaspector with a second copy of the plans and apecifications for the proposed work and the Inaspector shall apply to such plans and specifications an official stamp sturing

that the plans and specifications have been approved Such By-Law additional copies of plans and specifications shall be returned to 7528 the applicant and shall be kept on the axie of the proposed works until the completion of said works and shall be produced when demanded by the Building Inspector or any of his subordinates

- 31 DEVIATION PROM ORIGINAL PLANS. It shall be unlawful to creas, after or modely any hane, figures or colorings on an drawing or specification certified to by the Buld-line Property, or which have been Fold for reference, except as desired to devaste in any essential manner from the terms of the applications, drawing or specifications, context of task intention to acter or deviate shall be given in writing to the Bulding or specifications, context of task intention to acter or deviate shall be given in writing to the Bulding state of deviation may be made and of the conducters it necessary, new plans and specifications must be fided and approved, and folderall the Improve shall be employed:
- 32 PERMITS I IMITED If, after permit shall have been issued, the operations called for by it shall not be bagun, and reasonaby, continued, within three months of the date theirof, said permit shall be cancelled, and before such operations can be begun, or continued, a new permit shall be taken out by the owner or his agent, or authorized representative and fees as hereafter provided 3-as, be paid therefore.
- 33 ESTIMATE OF QUANTITIES Any person or connector who dissers to erect, repair or alter any building or structure shall, before the permat to proceed with the work is handed over to him, farnath the Building Engoleror with a certificate showing the quantity of concrete, brickwork, stonework and plattering which he retinates will be it and building only the proper changes for the water to be used in such building.
- If the City water is to be used for the above-mamed building materials, the rates will be as follows --Brickwork, per thousand bricks Sc.

Plastering, per one hundred square yards. 25c Concrete, per cubic yard . . . 5c Stonework, per cord . . . . . 5c ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

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- 54. FRE FOR BUILDING PERMITS. There shall be level and collected from every applicant for a building premit, whether the application is for a new building premit, whether the application is for a new building or for repairs, whether the cost of stack buildings, repairs, sheatmans or additions or structure does not exceed the sam. of \$500 the fee shall be \$100, over \$500 and not exceeding \$1000 the fee shall be \$100, over \$1000 and not exceeding \$1000 the fee shall be \$100, over \$1000 and not exceeding \$4000 the fee shall be \$100, over \$1000 and not exceeding \$5000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and not exceeding \$4000 the fee shall be \$100, over \$4000 and \$1000 the fee shall be \$1000, over \$4000 and \$1000 the fee shall be \$1000, over \$4000 the \$1000 the \$
- 35 PERMIT FOR OCCUPANCY When it is desired to occupy a building for which a permit to build has been issued, the architect, or owner shall make a declaration in writing to the Inspector of Buildings that the building has been erected according to By-Laws of the City of Winniping, whereupon the Inspector of Buildings may within three days issue a certificate permitting occupancy

No such permit shall be given until the plumbing and drainage system of such building has been inspected and tested as defined in the Plumbing By-Law of the City, found to be in accordance with such By-Law, and a certificate given by the Plumbing Inspector to that effect

#### DEFINITIONS

For the purpose of this By-Law, the following definitions of words and terms shall govern:—

- 36. ALTERATION Any change, addition or modification in construction or grade of occupancy
- 37 AREA An opening below the surface of the ground, adjacent to, but not beneath a building, and used in connection therewith.
- BAY WINDOW A rectangular, curved or polygonal window supported on a foundation which projects from the balance of the enclosing wall.

- 39 BUILDING Any structure erected by art and fixed By-Law upon or in the soil, composed of several pieces and designed for 7528 use in the position in which so fixed.
- 40. BUILDING LINE. Means the line of demarcation between public and private space, or the line prescribed by By-Law beyond which buildings are not to be erected.
- 41 BASE COURSE OR BASE OF BUILDING. The course or courses of masonry next to the grade line.

#### 42 BRICK

- (a) Common Hard Br.ck, means brick burned almost to the point of vitrification, and giving out a clear ringing sound when struck with metal.
- (b) Pressed Brick, means brick manufactured by high pressure in separate moulds, and burned to the highest point of consolidation without vitrification.
- (c) Cement Bricks, means brick made of sand and Portland cement of the same dimensions as common brick and made to meet the same test requirements as common bricks.
- (d) Soft Brick means brick which are light colored, sometimes called "Salmon Brick," of a soft crumbling nature and low crushing resistance, and which will not ring when struck with metal.
- (e) Push Placed Brick, means brick which are laid in a bed of mortar and pushed or shoved into place in such a manner that all open space between the brick and the adjoining bricks at side, end and bottom are completely filled with mortar.
- (f) Sand and Lime and Cement Bricks, means brick made of sand and lime of the same dimensions as common brick, and made to meet the same test of requirements as common brick.
- 43. COLUMNS. Isolated supports of wood, stone, concrete, mon or steel, re-inforced concrete, carrying the ends of beams, girders, lintels or trusses. Stone, iron, steel or concrete columns may also carry arches.

By-Law 44 CEMENT Fortland Censent as to be understood to 728m enem park occurred as well, whose tested enest, site sesting one day in air, be capable of maximmy wethout a reputer a tensale area of at least one number and fifty pounds per square meh, and after one day in air said not days in water, he capable of hardered pounds per square and. Censent, that then Portland censent, in to be understood to usean such censent as well when tested, after entiting one day in air, be expalsed of antisizing wethour regione a tensile stream of at least one handered pounds per square meh, and after to the year and not days in a

pounds per sonare mch.

- 45. INSPECTOR. The Building Inspector for the City of Winnipeg.
- FACTOR OF SAFETY The quotient obtained by dividing the breaking load by the safe load.
- 47 FOUNDATION That part of the walls that are below the joists forming the first floor of a building
- 48. FOOTING. The projecting course or courses at the bottom of foundation wall or pier
- 49 DWELLING OR HOUSE. A building either detached or in block, used solely as a residence and occupied by not more than one family.
- 50 DUPLEK DWELLING A building used solely as a residence for two separate and distinct families, each harm separate entrances, hitchen and bath rooms; when built detached on a bot not less than thruy three (33) feet wide shall be considered a dwelling, but if built in block or a lot less than thirty-three (33) feet wide shall be considered a temperature of the separate of the sep
- 51 FACTORY OR FACTORY BUILDING. A building in which merchandine is manufactured.
- 52 FRAME CONSTRUCTION A building of which the external and party or partition walls are constructed of wood, and, although the sides and end are latted, plastered and rough cast, or finished in stucco, or covered with corrupated iron or

other incombustible material, the structure is to be considered a By-Law

frame building 53 FIREPROOF BUILDINGS. "Fireproof buildings" shall be taken to mean buildings in which all parts that carry weights or resist strains are constructed wholly of stone. burned clay, iron, steel or concrete, and in which all partitions, enclosures, stairways, elevators, hoistways and roof are made who ly and entirely of incombustible materials, and in which all metallic structural members are protected against the effect of fire by coverings of a material entirely incombustible, not in-

purposally affected by water, and a slow conductor of heat 54. GRADE The established grade is the grade of the street as fixed by the City of Winnipeg.

55. GIRDER. The horizontal structural piece or pieces which support the end of floor beams or soists or carry walls over openings.

56. HEIGHT OF STOREY The perpendicular distance from the top of beams or joints in one storey to the corresponding point in the next atorey

57 HEIGHT OF BUILDING Means the perpendicular distance measured from the sidewalk or curb level at the centre of the front of the building to the top of the highest point of the roof joists, in the case of flat roofs, and for pitched roofs the average height of the gables shall be taken as the highest part of the building. When the walls of a structure do not adjoin a street or lane then the average level of the finished ground adjoining, the walls may be taken instead of the street, sidewalk or outh level

58. ASSISTANT INSPECTOR. Means a Bushing Inspector, subordinate to the Building Inspector for the City of Winnipeg

59. INCOMBUSTIBLE ROOFING. A roof covered with . not less than three (3) thicknesses of roofing felt and a good coat of far and gravel, or with fin, corrugated iron or fire-resisting material, with standing seam or lap joint

### ERECTION AND REMOVAL OF BUILDINGS, FIRE LINES FOR

By-Law 60: LODGING HOUSE Means a building in which per-7528 some are accommodated with electron apartments, and shall include hotels and tenements, where cooking is not done in the several apartments.

61 LINTEL. A small beam or girder placed over a door or window opening, with the ends resting directly on the masonry

#### 62. LOADS ON BUILDINGS

(a) Dead Load, shall consist of the actual weight of walls, floors, roofs, partitions and all permanent construction.

- (b) Live Load, shall consist of all imposed, fixed or transient loads other than dead, due to the occupancy of the building and its exposure to wind pressure
- 63. MANSARD ROOF A roof, the lower part of which is deep pitched and the upper part much flatter.
- 64. MASONRY The term masonry shall apply to brick, concrete, stone, term costs or reinforced concrete construction

#### 65 MORTAR

14

- (a) Cement Mortar, means mortar that is made with eement and sand in proportion of one part of cement to not more than three parts of sand, the ingred-ents to be measured and thoroughly misced before the water is added, and the moriar to be used immediately after being mixed
- (b) Cement and Lime Morter, means morter that is made with one part of lime and one part of cement and not more than three parts sand to each.
- (c) Lime Mortar, means mortag which is made with not more than three pasts of sand to one of lime. All time used for mortar shall be good quality, thoroughly
- burned and properly slacked before it is mixed with sand.

  66. MILL CONSTRUCTION. Means a building in which all the wooden guiders and posts supporting floors and
- which all the wooden griders and posts supporting floors and roof have a sectional area of not less than sixty-four square inches, and the floor and the roof systems are composed of heavy timbers and planked, with no concealed air spaces hetween.

- 67 OWNER. Means any person, firm, corporation, or By-Law agent for same, using and controlling property in the City of 7528 Winnings.
  - 68 ORDINARY CONSTRUCTION Means a building with wood, outs and wood or iron posts, columns or beams, which are not protected with fereressing coverings, but having the euternal and parry wills constructed with brack, stone or some other membeatish materal, the roof of such building being covered with its, iron, copper, stats, tile, felt and ravel or other materals of an encombastible nature.
  - 69 ORIEL WINDOW A projecting window similar to a bay window, but carried on brackets or corbels
- 70. OFFSET The offset, or change in thickness of a wall shall be regarded as being made at the top of the floor beam or mosts.
- 71 PUBLIC BUILDINGS. Means every college, church, chape, semnary, convent, school-house, hospital, asylum, hotel, half for public meetings, places of public resort or amusement, or lodge room
  - 72 PARTITION An interior subdividing wall...
- 73 PIERS. Isolated masses of brick work or masonry forming supports for arches, columns, gurden, lintels, trustes and similar structural parts.
  - 74 POSTS. A term which, when used, means wooden supports or columns.
- 75. PIER CONSTRUCTION Means a mode of contraction adopted an order to get a larger amount of opening in a wall has an ordernary wall construction will allow, the weight of the hiscover's or masoury spanfal walls in each buy, and all weights supported by them, also the weights of all other constructional parts as well as the superimposted loads on the roof structured parts as well as the superimposted loads on the roof which most increasinfy law. If yearher transverse theirbeaus data no ordinary beating wall.

## ERECTION AND REMOVAE OF BUILDINGS, FIRE LIMITS, ETC.

By-Law 76. REPAIRS. The reconstruction or removal of any part 7528 of an existing building for the purpose of its maintenance in its present class of construction and grade of occupancy

77 REINFORCED CONCRETE CONSTRUCTION
Means an approved concrete mouture reinforced by steel of any
ahape, so commoned that the steel wil take up the tensional
stresses and assist in the resistance to shear, and construction
of such nature that the stresses can be calculated according to
the accorded formulae of modern engineering tractice.

#### 78. STOREYS.

- (a) Easement, means a storey the floor of which is three (3) feet or more below the finished grade of the lot or the level of the sidewalk.
- (b) First Storey, means the storey the floor of which is first above the basement storey.
- (c) Second Storey, means the storey the floor of which is first above the first storey. Other storeys are to be numbered in regular succession counting upwards.
- 79 SKELETON CONSTRUCTION Means all buildness wherein all external and internal loads and strains are transmitted from the top of the building to the foundation by a framework of metal.
- 80 TENEMENT HOUSE Means any house or building option through which is retained, leased or occupied as the home or residence of more than two families living independ entity of each other, but having a common right in at he halfs, extrawrays, yards water closests or proves, or some of them, and early building mow or herestire in existence, not now used as a tenement house, hotel or lodging noise, but hereafter converted to medium.
- 81 THEATRE. Means a building having a stage with fixed and morable scenery, and used for the purpose of giving public performances of theatrical or operatic character or concerts.
  - 82 VENEERED BUILDINGS. Means a frame structure, the walls of which are covered above the foundation walls

with brickwork or terra cotta not less than four mohes in By-Law thickness or with stonework not less than ax inches thick, which in either case is properly accuract to the woodwork.

83. WAREHOUSE A building used for the storage of

#### 84. WALLS

- (a) Apron Wall, means that portion of an enclosing wall between the door and window sills of storey, and the door and window or lintels of the next storey below
- (b) Bearing Wall, means the wall upon which either or both the floor and roof construction rest.
- (c) Curtain Wall, means the enclosing wall of au iron or steel skeleton frame, or the non-hearing portion of
- an enclosing wall between poers.

  (d) External Wall, means every outer wall of a buildnor other than a party wall.
- (e) Foundation Wall, means that portion of an enclosing wall below the first tier of floor joints or beams nearest and above the grade line, and that portion of any interior wall or pier below the basement floor
- (f) Partition Wall, means any interior wall in a building
- (g) Party Wall, means a wall used or built to be used as a separation of two or more buildings, or a wall built upon the dividing line between adjoining premises for their common use.
- (b) Retaining Wall, means a sub-surface wall built to reast the lateral pressure of the adjoining earth and to prevent its caving in. Also an enclosing wall built to result the lateral pressure of internal loads and to prevent its caving in.
- (i) Thickness of Wall, means the minimum thickness of any wall, when hins, thirtees, seventeen or westly-one inch walls are required is to be understood to mean that such walls are to be one brick, one and one-half bricks in two bricks, two and one-half bricks in thickness respectively, and heavier walls are to be figured for thickness in the same proportion.

ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

### 18 By-Law 7528

### CLASSIFICATION.

- (a) First-class Buildings, means all buildings of fireproof construction.
- (b) Second-class Buildings, means all buildings of which the external or party walls are of brick, stone or equally substantial and incombustible material.
- (c) Thref-class Bouldings, means all buildings having the external or party walls countried by smiths maternal to second class buildings up to the first flore, but constructed of frame work in whole or in part, or having more wood on the exterior walls above the first floor that is hardless than the property of the party of the party of hardless and the party of the party of the party of shall be party of the party of the party of the party of the maternal or party of the part
- (d) Fourth-class Build.ngs, means frame structures, the exterior walls of which are veneered with brick, stonework or lathed, plastered and rough-cast or finished stucco.
  - (e) Fifth-class Buildings, means frame structures covered with galvanized iron, corrugated or otherwise, or metallic siding.
- (f) Sixth-class Buildings, means frame structures when the enclosing and interior partition walls are constructed entirely of wood, plaster, etc.

## 86. REQUIREMENTS AS TO CONSTRUCTION OF BUILDINGS (5) All buildings hereafter erected, repaired or altered

- in the City of Winnipeg so as to exceed seventy foet in height, except churches and grass elevators, shall be of first-class construction throughout, and churches containing a seating capacity of 1,200 or more people in the auditorium must be of fireproof construction up to and including the main auditorium floor
- (b) Buildings other than the above referred to may be ereted in mill, ordinary or frame construction in the several limits hereinafter described, save as provided for in the various sections hereinafter prescribed, but all such buildings shall be so divided by britic divisions walls, of the

thickness heremafter presented, that no space mosée of any By-Law such building shall exceed in area eleven thousand square 7528 feet, all such divasion walls shall be carried not less than twelve incides above the roed at every point. All buildings when over three storeys in height shall be so constructed that no floor shall be supported wholly or in part by wooden partitions, and floors must be supported on gurders or beams extending from wall to wall.

(c) No building shall hereafter be erected or altered to exceed one hundred and twenty feet in height, unless such building is furn.shel with auxiliary pumps and other special fire extraguishing apphances which have been approved by the Building Impsector, and unless the plans of such building have been submitted to the Building Inspector and approved by h.m.

(s) No wooden or frame building shall be erected or a tered so as to exceed thirty-five feet in height.

(e) No brick veneer shall be allowed for more than two storeys, and the whole height from the ground to plate shall not be more than twenty-dive feet, and no goble shall exceed this height by more than ten feet, and every fourth course of brick must be nailed to the studding every two feet with five-inch nails.

(f) No building shall have a greater height in proportion to the least dimensions of its base than that set forth in the following table:—

For bothings with sidetten frame, for times; would manourly wills only, but muse; for buildages of mill construction, three telescy with orderacy construction, twe side and times, frame sheddings, one buildages whose length exceeds two and one-shall meet her width, provided no buildage shall exceed the maximum highly established for its respective data. It is to be understood that mil all cases in the section of this By-Law dealing with the directions "Highly for Buildage".

(g) No dwelling house or other building intended for human habitation shall bereafter be erected fronting on any Exection and Removal of Buildings, Fire Limits, Etc.

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street, lane, alley or other public place within the City of Winnipeg which is less than thirty feet in width.

(A) Every dwelling house or terrace of dwellings shall be so located and erected as to provide for and preserve at least twenty percentum of the area of the lot, plot and premises on which the same is erected, free from all obstruction from ground to sky.

87 All water closet comparements in dwellings shall be provided with light by a window is an external wall. Every such window shall be at least one foot by three feet between stop beads, and the entire window shall be made as to readily open.

88. The following sections, numbered 89 to 104 inclusive, shall apply only to the portions of the City of Winnipeg within the First and Second class Fire Limits, as hereinafter defined.

89 CONSTRUCTION OF BUILDINGS. No business or any addition to any extraing building within the Fart class. Fire Limits shall be exerted or placed on old or new foundations or on foundations partly new and partly old, unless the same shall be built with man wala of brisk, ated, zinn, atom or concrete, at or ording of incontratible material. The foundations of all mats buildings shall be lad a depth of not less than the contract of the property of the proper

90. DWELLINGS. Writin the residential portion of the Pirst and Second-class Fire Lauris, all modern frame distached dwelling houses upon full stone, brick, contrete or central block basement may be erected. Saich houses shall be built and arranged for the use of only one family. The term "All Modern" shall be rosken to meader full plumbung, electric or gas lighting and a modern bestang system, such as hot ast, how the shall be distincted to the shall be distincted to the shall be of intered to the shall be distincted to the shall be distincted.

91 STOREHOUSES Storage sheds not more than sixteen feet in height at the highest point and constructed with walls and roof of corrugated iron fastened to ribbons without any wood instance on study and to be used for storage ourposes only, may be erected within the First-class Fire Limits, By-Law provided that storage sheds as above will not be allowed in the 7528 inner First class Limits hereinafter defined

- 92. OPEN SHEDS. Open abelter abeds, not exceeding twelve feet in beight at the nightst point and covering and extending over a space of ground not more than three hundred (300 square feet in area, naxing the whole of one of the longer under open, may be erected within the First-class First Limits, provided that the vialla and roof of said building shall be covered with netal.
- 93 OUTHOUSES. Should devalued from all other buildings on the came for, and durant fattern 113 feet from the nearest develope and not exceeding tender (127) feet in height set the highest point, and covering and extending over a space of the property of the property
- 94 PRIVATE GARAGES Automobile abeliers apparerant to and on the same lot as private dwellings, may be erected of wood with roofing of incondustable material, within the First and Second class Fire Limits, if such buildings are at least treasty (20) fect drivant from the nearest dwelling, but if within twenty (20) fect of any dwelling the walls and roof shall be covered externally with netal
- 95. PRIVATE STABLES. Stables with accommodation for not more than four (4) horses, appertenant to and on the same lot as private dwelling houses, may be erected of wood with roofing of moenhoustable maternal, within the First and Second-class Fire Limits, if such buildings are at least trensty (20) feet of any dwelling it he walls and roof shall be covered externally with metal.
  - No fence or part of a fence shall be used as a portion of a building in the First or Second-class Fire Limits.

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- 97 The external mans walls of al. mans buildings within the Second-class Fire Lieuts, if not made of briek, iron or stone, shall have, if more than two storeys high, either stone, brick or concrete foundations and be veneered or encased on the outside with brick or zero, or the same shall be plastered on the outside with at least two coats of hair mortar or cement, the roofing of al. such buildings shall be of incombistible material.
- 98. No person shall alrer or regars with wood the external walls of any aftered versating ballong within the First and Second class Fire Limits, when such external walls are made of brock, more at some, the same shall, not be reparated or such some state ballong are made of work, when the state of the same shall not be reparated as which building are made of wood, or if the same are walls of when building are made of wood, or if the same are some or store, or by contenting or exclasing the same with or iron or store, or by voceturing or exclasing the same with or iron or pasterning the same on the outside with at least two costs of hair mortar or content.
- 99 A stone or other substantial foundation may be placed under any wooden building already existing, but no wooden stills or posts shall be made a part of the foundation of the main walls of any building hereafter to be erected, altered or repeared within either the First or Second-class Fire Limits.
- 100. Any building within the First or Second-class Fire Limits, having a pitched roof, may have a flat roof of mombushible material substituted for each pitched roof, the walls of the building shall be carried up to meet the requirements of such change in the pitch of roof, provided that the highest point of such flat roof shall not exceed the highest point of the roof to be removed.
- 101. No person shall repair or after the roof of any existing building within either the First or Second class Fire Limits, except with incombustible material.
- 102. A wooden building within the First and Second-class Fire Limits may be moved to a different location on the lot on which it stands, provided that in the opinion of the Inspector of Buildings the risk of fire will not be increased.

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- 103. All buildings within the First and Second-class Fire By-Law Lamts for dwellings or otherways, recreted in sterence or cross, 7528 shall have brick division wash in such positions that every two dwellings or comportenents shall be dwided by such division walls. The division will shall be in no case less than mine onless in thickness, and shall be carried up think with the upper edge of the ratters of the root and the sheeting boards shall be bridded in morter in such while.
- 104. Any removal, rasing or enlargement of any building with the First or Second data First Lumbs shall be considered a re-certons and subject to the provisions of this By-Law, and any alternism of the walks, reds, parks to the System of th
- 105. TENTS No person shall erect within either the First or Second-class Fire Limits any wooden building or structure partly of wood, partly of canvas, felt or other like materials, tests or other similar structures or additions thereby or alterations thereof
- 106. STREET FERMITS. It shall be the daty of every hallen and of the owner where there are two or more builder for the same structure, to give notice to the City Beginner before any habite, stone, brief or other building materials are present all determine what portion or portions. It any, of the street or addeasalt is or are necessary for the puspec of the street or addeasalt is or are necessary for the puspec on the building or other persons building for the puspec of the street or addeasalt is or are necessary for the puspec on the builder or other person building for the puspec of the same, a permit in writing defining what portion of the street or other persons are persons or the puspec of the making of any read-alterations or require, and for what person such portions or protroom may be so used.
- 107 MATERIALS ON STREETS. No person shall place any building or other material on any part of the streets

BP-Law or ade-alike of the City racept after receiving a permit to do 752m or as storaged, and then only in mace portion of that steet or adevalk allowed to be used and mechanised in such permit. Such materials shall mot be pelled to, a greater height than six feet, not so as to obstruct the free passage of waters in the diman, guitten or water courses along the street or indexalls, nor shall any person prepare or mix any mortax, or cut or dress any stone or bumber on any steeter or deductals in the City, or in the space allotted or mentioned in such corrent, or pick thereon in the control of the control of the control of the control of the space allotted or mentioned in such corrent, or pick thereon any that the corrent heaver from the core of the highest proposed.

awred for subsequent use in such building

108 REMOVAL OF MATERIAL. No person shall suffer or permit any building material or plant brought by him upon any street or sidewalk, to remain any longer than the duration of the permit of the City Engineer, or any extension thereof, or whilst the same remains in force and apon the completion of the walls and outside work of any such building or upon the expiration of the permit of the City Engineer, whichever happens soonest, the owner builder or other person who has brought such material or plant upon any such street, shall immediately remove all such material or plant from the street or sidewalk and cause the street and sidewalk to be cleared and repaired and placed in as good condition and repair as the same were before such material or plant were placed thereon. In the event of any contractor failing or neglecting to remove any such material or plant as aforesaid or failing to cause the street or sidewalk to be cleaned and repaired as aforesaid, when required so to do by the City Engineer, the City may remove any such plant or material or clean and repair any such sidewalk or street as the case may be, at the contractor's expense, and the contractor shall thereupon pay to the City the cost of such removal cleaning or repair. The certificate of the City Engineer as to the amount of such cost shall be final and binding on the contractor

109. REMOVAL OF SIDEWALK The person or persons required to to make any alterations, remove the addressit, any such there be, or cover or protect the same the full length of the building proposed to be erected, altered or repaired, and

enclose with a board force, an feet in hought the portion of the By-Law saketwalk and street allowed to be used and metambord in 1928. The parties of the patienters of toolgath at least tour feet order, with a strong hand, and, there feet high strong in feet for parasiteneys, thould all and the parties of the parties of the parasiteness of the parasiteness of repairs to or are funded, but if the sead subsiding, alterations or repairs to or are funded, but if the sead subsiding, alterations or repairs to or are funded, but if the sead subsiding, alterations or repairs to or are funded, but if the sead subsiding, alterations or repairs to or are funded, but if the sead subsiding alterations are parties of the parties of the parties of the parties of the granulation of the parties of the parti

110 TEMPORARY FOOTPATHS The Sospath in friend any hinding being recreted on the line of sizers shall be at all times clear of any observation, in cases where footpaths at all times clear of any observation, in cases where footpaths at the cases, and the sizers of the control of the control

111 CONTRACTOR TO BY RESPONVIBLE Every promished neetes or maintains ever the salewalk or foctoway for any street a covered way, or who depoint say building natural every street, indeads or boroway under a permit and the same of the same of the same and indeamily the City agents all disanges or injures thereby an and indeamily the City agents all disanges or injures thereby and indeamily the City agents all disanges or injures thereby an and indeamily the City agents and end light upon all such observed with the contraction to summer by one of the City under each enter man concepting any of the attents of the City under each enter man concepting any of the attents of the City under each enter man concepting any of the attents of the City under each enter man concepting any of the attents of the City under each enter man concepting any of the attents of the City under each enter man concepting any of the attents of the City under each enter man contraction.

112. ADVERTISING MATTER ON FENCING OR BARRICADES. No notice or signs or advertisement of any kind are to be placed upon any covered way, fencing or barricades constructed in front of any building in course of erection other By-Law

By-Law than those of the owner or occupant, and then only such as may 7528 be approved by the City Engineer

- 113 OBTAINING GRADE OF STREET Before any building 1s commenced on any public street, the person or persons deserous of erecting such building, or some person on the such aircraft as adopted by the Council or as established by I was add Engineer whall, upon required in writing therefor, and descripted the such as the person descripted or exect any such building, or the preson as his behalf making application, the angle craft of street.
- 114. AREAS UNDER SIDEWALKS Any nemon desiring an area, opening, tunnel or coal chute to be constructed in or under the s.dewalk and street opposite his property shall apply through the City Engineer to the Council for permission to have the same constructed, and shall submit to the Engineer a plan thereof The City Engineer, if satisfied as to the safety of such area, opening, tunnel or coal chute, may recommend to the Committee on Works and Property that permission be given, and the said Committee, if it approve of the Engineer's recommendation, shall so report to the Council, but no area, opening, tunnel or coal chute shall be constructed until the permission shall have been given therefor by the Council. If the Council give permission to construct such area, opening, tunnel or coal chute the City Engineer shall see that same is constructed in accordance with the permission of the Conneil. and so as to render the sidewalk and street as safe as possible for the use of the public after such construction and thereafter such area, onening, tunnel or coal chute shall be kent in good and sufficient repair by the person owning the premises opposite which the said area, opening, tunnel or coal chute has been constructed; every such coal chute shall be constructed at the outside edge of the sidewalk
- 115 KEEPING AREAS IN REPAIR All area openings, tunnels and coal clutes herefolor constructed, as well as those authorized under this By-Law, may be continued in use until the license therefor is revoked by the Council, and until such license is so revoked the owner or occupier of the properties opposite which the same exists shall keep such area, opening.

tunnels or coal chutes in good and sufficient repair, and it shall By-Law be the duty of the City Engineer to report to the Council on all 7528 such areas, openings, tunnels or coal chutes which are out of repair, for the Council to decide whether or not to revoke

116 FEE FOR AREAS. An annual charge of five cents per square foot of surface area shall be imposed and charged for all areas and tuonels in and moder the sidewalks and streets of the City.

said license

- 117 FEE FOR COAL CHUTE. An annual charge of one dollar shall be imposed and charged for each coal chute in or under the sidewalks and streets in any part of the City.
- 118. ASSESSMENT COMMISSIONER TO MEASURE AREA OR OPENING. The Assessment Commissioner shall measure each area, opening or tomad in or under the indevail of streets, and compose the animal charge to be under against openings or tunnels exist. Fedore the preparation of the Coltector's EGG each year, so that the maje enter the same opposite the proporties in respect of which the said charges are rated or moused, and he shall ascertaw which could include some time and City, so that each carge may be fakewise unterted in the said City, so that each carge may be fakewise unterted in the rated against mith properties and thereafter shall be thread and collected with taxes for the current year in the same manner as other municipal taxes.
- 119 UTILIZATION OF SPACE UNDER SIDES ALKS: Any person desease of utilizing the space under the indewalk in front of any building owned by him at the said City shall construct a sufficient stoat, hacke or concrete wall to the control of the cont

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#### SCAFFOLDING

- 120 TEMPORARY SUPPORTS Any temporary supports placed under any structure wall, girder or beam during the erection, alteration or repairing of any building or structure, or any part thereof, shall be of sufficient strength to safely carry the load to be placed thereon
- 121 SCAFFOLD, STAGING AND HOIST Scaffolding, staging, hoists and such other appurtenances of building operations, must be amply strong and secure for purposes intended
- 122 OUTSIDE SCAPFULDS. Classife scaffolds, relies approach by commonsus supports not be ground up, or upon threatousts from sendous and salls above the third flow, or upon threatousts from sendous and salls above the third flow, and the classified sendoust flow of the classified sendoust flow sendoust flow of the classified sendoust flow sendous flow sendoust flow

123 TEMPORARY ELOCATING As soon as the walls of a budding in centured or constructions have reached the level of the first floor and the point of such floor have been placed in which the property of the first floor and the point of such floor have been placed in which we have been placed in which we have been placed in which we have been placed in the permisent, and as the louding progresses from floor to floor the placed or darks out floor being supported from floor to floor the placed or darks out floor floor to floor the placed or darks of the floor floor the placed of the floor floor

#### EXCAVATION

124. EXCAVATIONS TO BE PROPERLY GUARDED All excavations for buildings shall be properly guarded and

protected by the person, persons or corporation causing them, By-Law to be made, so as to prevent the same becoming dangerous to the and innb, and shall be sheet poled where necessary, to prevent the adjoining earth from caving in by reason of its own weight or by reason of any local that many set upon it.

- IS WHEN CONTIQUOUS WALLS ARE TO RE-LOTREPHENDE BY PARTIES BUILDING. Whesever an excavation shall be carried to a greater depth than four feet below the adjourn greet, has or adequal the person or perserve any contegeness was. from supery, and also the street, has or otherwise, and statum and protect and underpose his same at his or they own costs and expense, so that the east wall, street when person the properties of the properties of the street, has been exceeded by the properties of the street, has been also the previous was commercical, so executably as at as before which previously are commercical, so
- 126. DRAINAGE. Before the walls of any building are carried up above the grade level, the basement shall be connected with the street seever through draws takes and each abasins and weeping draws of porous tale, gazed this or broken stone-pipes, covered with at least six suches of broken stone shall, be lead round the foundations, if such draws be laid outstack they shall, be connected through the walls with the muscle draws takes.
- 127 BASEMENT FLOORS. Every basement of a dwelling or any other bushling when used for stronger or any other purpose shall have a held of cement concrete not less than four mothers thick appead over its enter bottom, and be familed with a surface of centent moster not less than one most likely, and be properly graded to earth basen. Where wood floors are to be lad in such basements, sleepers shall be placed on top of the concrete.

### FOUNDATIONS

128. Foundations shall be proportioned for the actual average loads they will have to carry in a completed and occupied building, and not for intersected or occasional loader provided, however, that in determining the carrying capacity of footings, piers and columns in dwellings, office buildings, stores, stables and public buildings whech are over five acrosps in

- By-Law hught, a reduction of the live loads shall be permissible as 7528 follows: For the root and top floor, the full live loads shall be used, for each succeeding lower floor, it shall be permissible to reduce the total low loads by five per cent, until fifty (30) per cent of the Live loads between cent, until fifty (30) per cent of the Live loads become flood for the different used for all the remaining floors.
  - 129 MATERIAL OR FOUNDATIONS. Foundation walls of any bundings must be built of hard brick, stone or other hard and incombinistible material, and where there is a basement, the walls below the surface of the ground shall be they be surface of the ground shall be used to be sufficient of portion of the property of t
  - 130. PILES TO BE DRIVEN TO A SOLID BEARING Piles intended to sustain a wall, pier or post shall be driven to a solid bearing if practicable to do so, and the number of such piles shall be sufficient to support the weight imposed thereon
  - 33. SIZE AND MATERIAL OF PILES. Pice shall not be less than as maken a dansier at the small end and twelve orders at the but, and shall be of concrete to heroloc, toward, of the shall be shall be of the shall be shall be
  - 132 FORMULA FOR DETERMINING SUSTAINING POWER OF PILE. No pile shall be weighted with a load exceeding twenty-five tons. Where a pile is not driven to a relusal, its sustaining power shall be determined by the following formals—Twice the weight of the hammer in pounds, multipled by the height of the fall in feet, divided by the penetration of the pile in inches plus one sadder the last blow
  - 133. SIZE AND KIND OF WOOD IN RANGING AND CAPPING TIMBERS. If the pale construction is used under water and ranging and capping timbers are laid on pales for a foundation, they shall be of hard wood, not less than six inches.

in thickness and properly jointed together with the top of the By-Law uppermost timber laid below water, and the timber shall be of sufficient size to safely transmit the load to the piles.

- 134 FOOTINGS FOR FOUNDATION WALLS AND PERS. The foundation walls of every building and the in-ternal supports shall rest upon footings of concrete, steel or iron bedded in concrete, atonic or hard burned briok, reging upon firm solid ground and not upon filed in material or soil tonianne and administure of circaine matter.
- 135. TEST PILES TO BE DRIVEN. The Budding Inspector hall be entitled of the unsew best ent of install place will be driven, so that he may be present in person, or have a major better than the property of the property o
- 136. REIMPORCED CONCRETE FOUNDATION IT the trained read was seen data a part of a foundations they must be coupled together and land on a fire of Portificat General consists of the control of the contr
- 137 INGREDIENTS AND PROPORTION OF SAME IN CONCRETE. The proportion of cement, sand and broken means in concrete used for footing or foundation walls shall be as follows —One part of Portland cement to not more than two

7528

By-Law parts of sharp, gritty sand and five parts of clean beach gravel or clean stone, broken so as to go in any way through a two and one-half meh ring. The same to be mixed in an approved concrete m xer. If mixed by hand the sand and cement to be thoroughly mixed dry and until the mass shall be uniform color, then water to be put on and the mixing continued until a good mortar is formed, when the stone, after being dampened is to be added and the entire incredients turned over and over until they cling together in a pasty mass. All concrete shall be used immediately after being mixed and before it begins to set. The offsets of concrete footings, not reinforced, to be not less than one-half the depth of the course below

> 138. THICKNESS OF FOUNDATION WALLS IN VENEERED BUILDING Foundation walls for two storey and attic veneered sudding or buildings with a flat roof, which are not over thirts-five (35) feet in height from the ground floor to the highest point of the roof are not to be less than thirteen inches in thickness of brick or concrete, and not less than sixteen inches of stone, in either case the walls to have footings not less than six arches in thickness and projecting not less than four inches on each side beyond the wall above.

> 139 FOUNDATIONS FOR FRAME, ROUGH CAST OR STUCCOLD BUILDINGS. Frame, much east or stuccord buildings of a similar neight to these referred to in the last preceding paragraph, may have nine-inch brick foundation walls with fourteen such fuotioners, not less than six inches in thickness. but in either case the walls are not to exceed eight feet in height Buildings of this class may also rest upon concrete foundations of the same demensions. If stone is used the thickness of foundation was to be not less than system mobile

140. PERMISSIBLE LOAD ON SOIL. The permissible load per square foot to which different kinds of soil under the foundation walls and piers of outdoor may be subjected to is as follows -

	Tont p	er aguare ft
Dry hard clay		3
Moderately dry clay		2
Soft wet clay		. 1
Allegeral pools		1

The width of all footings and ranging timbers shall be at By-Law least sufficient to meet these requirements. 7528

141 TESTING SUSTAINING POWER OF EARTH Where a doubt arises as to the safe statisting power of the earth apon whin a building is to be erected the Building Inspector may order borrogs to be made or direct the sustaining powers of the soft to be tested by and at the expense of the course of the processed building.

142. ALLOWABLE LOADS PER SQUARE FOOT ON BRICKWORK, MASONRY, ETC. The load per square foot placed upon walls, pers or other supports of masonry constructed of first-class materials of the several kinds mentioned, shall never exceed the hunts given in the following table —

TO Bade le	ed sec		pare ft	
Kiln run bricks laid in lime mortar		3	tons	
Kiln run br.cks la.d .n Portland cement morta	π	5	tons	
Hard bricks laid in lime mortar		6	tons	
Hard brick laid in Portland cement and lime me	ortar	9	tons	
Hard brick laid in Portland cement mortar		12	tons	
Pressed brick laid in lime mortar		8	tons	
Pressed brick laid in Portland cement mortar		14	tons	
Rubble stonework in lime mortar		4	tons	
Rubble stonework in lime and cement mortar	,	б	tons	
Rubble stonework in Portland cement mortar		8	tons	
Concrete, one part cement, two parts sand and	five			
parts of stone		15	tons	

145. BONDS, STONISS OR IRON PLATES ON PIERS, ETC. All pures, bettereso or planters that carry twothirds of their safe load, and are less than five brides in width all laws cast uso plates or bond stones very four feet in height, the bond stones to be not less than two courses of broke or as undeen in hiskness and the full use of of the pier, butteress or pulsater, and all such puers, buttresses or pulsaters shall be capped with stone or mon cap.

## GENERAL CONSTRUCTION

144. The walls of all brick buildings shall not be built of sess thickness than is contained in the following tables.—

y-Law Brick buildings used as Dwelling House, Tenement House, 7528 Lodging House or Hotel.

No. of Storeys	Pou	mda43en	Walls	*	Floors	
Destraya	Stone	Brick	Constrate	lst.	2pd	3rd m
One .	. 16	13	10	9	-	
Two	18	15	10	9	9	
Three	20	17	52	12	12	0

145. For building used as Office Building, Hotel, Ware-house, Factory Building and Public Building, also Tenement House, Lodging House or Hotel exceeding three storeys in height.

No. of Storeys			weds!	lien. le										
		fites		trick,	let	rad	3rd	4th	5th	65h	76h	Bth	96b	
One .			18. 18	13	13	-	-	-	ж.	SE.	pm.	ěp.	10.	20.
Two			20	17	13	13								
Three			22	17	17	13	13							
Four			24	21	17	17	13	13						
Five			27	21	21	17	17	13	13					
See .			30	25	21	21	17	17	13	13				
Seven			35	30	25	21	21	17	17	13	13			
Eight			35	30	25	25	21	21	17	17	13	13		
Nine .			38	35	30	25	25	21	21	17	17	13	13	
Ten			40	35	30	25	25	25	21	21	17	17	13	13
144	5.	WA	LE	SE	XCE	ED	ING	GT	VEN	111	EIGE	tTS.	то	RE

Indo WALLS EXCREDING GIVEN HEIGHTS TO BE INCREASED IN TRICKINESS In the foregoing tables of tholkeness of walls the perpendicular distance from the top of the perpendicular distance from the top of the perpendicular distance from the top of the perpendicular distance from the perpendicular to the basement or cellar, mastene feet for the first floor, storten for except the top story, which may have an additional for left the second story and fifteen for all storys above the second, except the top story, which may have an additional for left here respective begins the valle of such storye and all the storye below the same shall be increased on-ball brick or about four and on-ball order on about four and on-ball brick or about four and on-ball order to than the thebeses given in the tables, and the battersting for store be uncreased as an other in thickness and of the brick four stores be uncreased as an other in thickness and of the brick four and one-half suches in thickness for every additional ten feet or By-Law

part thereof in excess of twelve feet.

147 WHEN CEMEAT MONTAR IS TO BE USED IN ELLEAR OR ASSEMBENT WALLS. All basersest walls ball of stone or brink in buildings not more than durry-five feer in height from the top of first froot justs to the highest point of the roof, can be built with lime montar, but if thus height of thruy-five feel between the posts mentioned is or-height of thruy-five feel between the posts mentioned is exhibit to the post of the post of

148 WHEN WALLS ARE TO BE INCREASED IN THICKNESS OWING TO OPENINGS. When any horszontal section of wall of a uniform thickness shows a reduction in area on account of flues, openings or recesses of more than forty per cent for the three upper storeys, or more than thirty per cent in all storeys below the third storey from the top, one-half brick shall be added to the thickness of the wall for every succeeding interval of ten per cent or part thereof reduction. If the building or any portion thereof be constructed in what is known as pier construction, the area of the pier shall be so proportioned that the maximum load on any part thereof shall not exceed the stresses given in the foregoing table, and the anandr.) sections between the overs shall be one brick and onehalf or thirteen inches in thickness. If the spandril sections carry souts the loads shall be transferred to the piers on steel or reinforced concrete beams.

149 HEIGHT OF UNSUPPORTED PIER LIMITED.

No isolated pier shall exceed in height seven times its least dimension.

150. THICKNESS IN TABLES TO APPLY TO ALL ENCLOSING AND BEARING WALLS. The thickness of walls specified and set forth in the tables for the various buildings, are intended to apply to all exterior enclosing walls, and

- - By-Law all such interior walls as may be required for the support of 7528 floors and roofs.
    - 151 WHEN WALLS ARE TO BE INCREASED IN THICKNESS. An increase of one-half brick, of about four and one-half (nches in thickness of walls, shall be made in all cases where they serve as bearing party walls
    - 152 Al. internal non-bearing walls of buildings may be four inches less in thickness than is specified in the tables for the different storeys, provided, however, that none are less than nine inches or one briefs thick
    - 153. THICKNESS OF WALLS SUPPORTING TRUS-SES OR GIRDERS. The outside walls, if of brickwork, of all public halls, theatres, opera houses or other buildings in which the roofs or ceilings are carried on trusses or gurders of a span of fifty feet or more, shall not be of less thickness from the bottom of the first floor sounts at the lowest point in the main auditorium to the underside of the trusees or girders, than the following -
      - (a) If the walls are over twelve feet and not over twenty-five feet in height, they are to be not less than seventeen inches thick, if more than twenty-five feet high and not more than fifty feet high, they are to be not less than twenty one suches thick for the first twenty five feet and seventeen inches for the remainder of the height
      - (b) If more than 5fty feet high and not more than seventy-five feet high, they shall not be less than twentyfive maches thick for the first twenty-five feet in height. twenty-one makes for the second twenty-five feet in height and seventeen inches thick for the remainder of the height. For any increase in height over seventy five feet, the thickness of the walls shall be increased in the above ratio. An increase of four and one-balf inches in thickness of walls shall be made in all cases where walls are over one hundred feet long without cross walls of equal height. In all cases the foundation wall, if built of brick or concrete. to be not less than four and one-half suches thicker than the wall immediately above, and six inches thicker if built of stolle.

- (c) When the walls are more than twenty five feet By-Law according to concludi brick shall be added for every succeeding meterval of twelve and one-hall feet, or part thereof, of datance between them, without intermediate division walls or rows of column and evident supports.
- (d) In case there shall be one or more storeys built above a public ball, theatre or opera house, such storeys being carried on trusses or girders, the thickness of walls shall be increased by four and one-half inches or one-half brick for each two storeys or part thereof above the main auditorism of such building.
- 154. When were mesh is used to reinforce brickwork, a reaction of four inches may be allowed in the thickness of wall, provided the mesh is inserted in the joints every second course, provided, however, that no wall shall be less than non-michen or one brick in thickness.
- 155. If solid masorry buttresses are employed and placed not more than sixteen feet apart and extending to the foot of the trusted or curders carrying the colling and roof, or if from or steel columns are inserted in such walls for the support of the superstructure, and at distances not more than eighteen feet between centres, such columns extending to and carrying the superimposed trusses and girders, the thickness of such walls may be reduced in proportion to the nerease of strength afforded by such buttresses or columns, but in no case shall any such wall be less than thirteen inches thick in the top storey. four and one half inches or one-half brick being added, going downward, for each storey or for each gallery, or for each twenty-five feet in height of blank wall. If iron or steel columns are introduced in said walls the brickwork around same shall be bonded into the connecting walls, and each of such columns shall have not less than four and one-half inches of brock wall accound it, the brick being measured from the extreme dimensions of such iron or steel columns.
- 156. If a public hall, theatre or opera house is of skeleton construction and the steel framework carries the entire superimposed load of floors, roof and walls, then the enclosing walls shall consist of thritten inches of solid brickwork with two inches of hollow tile, or four inches of hollow brick on the in-

- By Law side, properly banded together the balance of the structural 7528 parts to be protected against the effects of fire, as required under Fire Proof Construction.
  - 137 FIRESTOPS WHEN WOODEN FURRING IS OF ABE USED. In all back buildings, is all walls where wooden forming is used, all the courses of brack from the under wooden forming is used, all the courses of brack from the under add of flow beams to the top of the same shall project a destance of at least two methes sproud the maske face of the wall, as a to provid an effective fire stop, and wherever floor beams and one-half inches sawy from the made in of the wall and not half inches sawy from the made line of the wall and provided the walls shall be built up soled, with brickwork from the undersade of the floor to the top of stance, to as to form as affective frietedp.
  - 158. JOISTS AND BEAMS IN WALLS TO BE SPRARTED All joints, beams or other timbers in any party, fire or partition wall in any building shall be separated from the joints, beams or timbers entering the opposite side of such wall by at least inne inches of masoury work.
  - 159 TIMBER IN WALLS PROHIBITED No tumber, except made intent, as hereinalter provided, or wood brick, not more than a.ns: inches in length, shall be used in any wall of any building where stone, brick or iron is commonly used, provided, nowever, that the above restriction a not intended to apply to lath nating strips being put in walls of buildings not less than eight courses of brick apart.
  - 160 JOISTS TO BE BRIDGED. All wooden floor or roof joists, except in mili construction, shall be properly bridged, and the distance between rows of bridging or between bridging and walls shall not be more than sight feet.
  - 161 JOISTS AND BEAMS TO BE CUT ON THE SPLAY. All beams, yosts or rafters which have to enter the berck or masonry walls for support shall have a bearing of at least three and one-half inches thereon, but youts shall not extend into any wall more than four inches, and the ends of all tumbers shall be cut and have such splay that the opper portion shall not extend wome than one upon host he will or.

joists, rafters and timbers can be hung on stirrups if such is By-Law

approved of by the Inspector of Buildings. 162 WHEN STEEL OR IRON LINTELS ARE TO BE PROVIDED All stone or brickwork over openings exceeding four feet in width shall be supported on stone, iron or steel lintels of sufficient strength to carry the superimposed weights, except no where such stone or brickwork shall be supported with properly tied and substantial stone or brick arches. All lintels supporting stone or brickwork, over openings more than six feet in width, must bear on stone templates or iron or steel plates, the templates or mates to be of sufficient area and

thickness to distribute the weight on the wall below to such an extent as to do away with any hability to crushing, and the lintels over openings less than six feet in width shall have a bearing at each end of at least six inches on the wall.

163. WOOD LINTELS TO BE CAMBERED. Where wood lintels are to be placed over openings not more than four feet in width, the top of the lintels shall be neatly cambered to receive the brick arch above the listely to have a hearing at each end of one-half brick or four and one-half inches on the wall, and the depths of the lintels at the ends to be about three mehea, or the height of one course of brick

164. RECESSES IN WALLS. No recesses or chase for water, soil, steam or other pipes shall be made in any exterior, or in any other bearing wall, to more than one-third of its thickness, and the recesses around said pipe or pipes shall be filled up with solid masonry or plastic incombustible material after the pipes are in place for the space of one foot at the top and bottom at each storey. No recesses shall be made in any exterior or other bearing wall less than one and one-half brick thick, and no continuous vertical recess, other than five and stacks. shall be nearer than seven feet to any other recess. No channelling shall be done in walls which are less than one and onehalf brick thick, except for small gas pipes and wire conduits. Recesses for stairways or elevators may be left in the foundation or basement walls of all buildings, but in no case shall the walls be of less thickness than the walls of the fourth storey, unless reinforced by additional piers with iron or steel girders. or iron or steel columns and girders securely anchored to walls on each side. In new buildings all openings larger than four

41

By-Law inches square, or chases deeper than four inches, shall be 7528 located on the pians and left in the walls as they are carried up. No horizontal chases or recess shall be cut in any walls.

165. EOLLOW WALLS. In all walls that are bash bollow, the same quantity of stone or brize shall be used in their construction as of they were bash used, and had be built unless the pairs of the same are connected by proper toe orther of kerds, stone or metal, placed not over textsylvour netwest apart. No hollow wall shall be used unless the bearing portions in accreasing the texts of note their base that bearing portions in accreasing the textsylvour netwer as a current on the thouses as specified in the bearing portions in accreasing the texts was a specified in the required in walls in consequence of reduction of area coming to opening, filter or reconsists in same.

166 SILLS, LINTELS, ETC. All out stone, terra cotts, artificial stone or other monobinabile trum of waks, such as sills hards, occuse moulds, belts, etc., shall be properly anchored or net to the backing, and no sone trimming shall have less than one-hall briefs of full bed bearing on the walls, and all such time shall have at least saxly five pre-cent of their mass land on bearing on the wall, or shall be carried upon steel lookours moorethy enchronist to wall.

167 WHERE CHANGES IN THICKINESS OF WALLS. ARE TO BE MADE. All changes in the thickness of walls shall be made at the top of goats, and not otherwise, and that portion of the wais above the eviding posts shall be of the same thickness as that given for the upper storey. All metror walls supporting joints shall be carried up to and levelife off flush with the top of the said joints, unless the same are the celling joints and the walls shall be carried up to the top of or joints.

168 CONSTRUCTION OF FRONT AND SIDE WALLS. In no case shall the front or side walls of a building be carried up more than five feet in advance of the other walls unless by permission of the Building Inspector, in which capapitored in an achieve the substance of the substance of

169 OPENINGS IN DIVISION OR PARTY WALLS. It shall be unlawful to cut or leave may opening in any division

or party walls except auth openings are approved of by the By-Law Bailding Inspector. Every opening left in or cut through a 7528 and wrasto or party wall shall be provided with an approved for the action and of the wall, but four to be hang on the provided of the safe of the law and the wall, all such doors to be self-closing and safe open only by a soft or fusable into which will read allow the doors to to close, send closures shall say such opening exceed supplies the in which, now to fine far he height, and above such such that the law and the law

- 170. WHEN BRICKS ARE TO BE WET AND QUAL-17Y OF SAND IN MORTAR All brick lad in nonfreezing weather shall be wet immediately before being laid, the sand used for mortar in all buildings shall be clean, sharp and coarse, perfectly free from loam or other material which would have a tendency to lessen the adhenve or compressive strength of the mortar
- 171 OLD BRICKE PROHIBITED IN ISOLATED PLERS, ETC. No soft or salmon bette shall be used in any building where such brick will be exposed to the weather or in purse or any part of any wall where there is suncarial weight or more that a twenty-few feet of wall above them, and in no case shall more than fathen per cest of salmon brick be used. No old brick thall be used in any violated pure, notifiers or platter, or in any external or internal bearing with leftor the real of the per soft of t
- 172 BOND OF BRICKWORK. The brickwork in all walls, piers, buttreases or pulsaters of a building shall be well bedded in mortars, laid in single courses across the walls, and be well flushed up with mortar for every course. No more than five courses of stretchers shall be laid in any part of a building without a contrie of headers, and the headers shall extend entirely through the well, except hiere face brick is

- By-Law used In one storey structures and private dwelling houses, all 7528 brickwork shall be built to a line and cornered up plumb, structured and level from the bottom to the two of the building.
  - 173 PRESSED BRICK FACING, ETC. Preset between facings, except where otherwise bromainer specificd, must be bounded to the barkings with galvanused metallic wall near eleast every fifts course, the tens to a placed not more than two feet apart, or ten may be used every fift, course, and a row of less thanks, or ten may be used every fift, course, and a row of less thanks and the second tensor of the present thanks and the present tha
  - 174 STONE, TILE OR TERRA COTTA FACING TO ELE ANCIDICES Wills may be bust with a fauncy of stone, tile, terra cotta or other monombushibs material of security under to a backing not least than more inches in thickness of hard borned properly lack brock, but the thickness of the backing shall not be less than received for Perch walks of the same voids unrounded by terra cities and backing shall be filled with mottar or common.
    - 175 NO MASONRY OR BRICKWORK SHALL BE SUPPORTED ON WOOD No wall of brick or stone shall be supported in whole or in part by wooden posts, beams or griders.
  - 176. BRESSUMERS Bressumers in all cases shall be carried on briek or stone walls or piers, or on east iron or steel columns, seated on atone or concrete, and in no case shall be carried on storey posts or other tumber supports, and when the ends of any pressumers shall approach the centre line of any party wall nearer than four inches and a half, such ends shall be encased and centrely surrounded in cast iron shoes.
  - 177 CONSTRUCTION OF BRESSUMERS. All bressumers on which a brick or stone wall is to be built shall be made of steel.
    - 178 WHEN OLD PARTY WALLS MAY BE USED. Walts heretofore built or used as party walls, whose thickness

at the tune of their arctiton was in accordance with the re-By-Law querements of the three scatting By-Laws, but which are not 7528 in accordance with the requirements of this By-Law, may, if in good condition, be used for ordansy party walfs, provided the height of same is not increased and that with the proposed load placed upon them they will come within the limit of

179 BEARINGS FOR GIRDERS, TRUSSES OR POSTS. Back and all girlers, beans, trustes, posts or other supports and rest upon a hard fits some or mon or steel plate, of the use and theiliess required in the By-Law, to distribute the weight on the walls or other papers below, so that the two walls of the walls or other papers below, so that the weight on the walls or other papers below, so that the weight on the walls or other papers below, so that the weight on the walls or other papers below, so that the material of which is no controlled will not be of which the safe load given for that material in the fore-enough tables.

180. WALLS FOR LIGHT AND VERTILATING STATES. FOR LIGHT AND VERTILATING STATES, are yet-building hereafter erected or altered all walls or particles forming interior light or vert that shall be walled to particles forming interior light or vertilation and walls or particles. The properties of the pro

Where shafts start above the first floor they shall be supported by steel or concrete beams.

Walls of dumb wasters election chartes or other smiles

walls of dumb wasters, clothes churtes or other amiliar shalts shall be built as directed for light and vent shafts, and be provided with an approved metal covered door at each opening.

181 ANCHORS. The brack or stone walls of each storry above the first fron, ruclouing roof and ceiling posts, of every building shall be suchoed to the joints and beam or girdless with substantial wrought ren or selest anchors, which shall be solidly build into the walls from a point not more than one-hall brick or lover and one-half modes from the outside face of the brack or stonework, the distance between anchors, which are to be secured to joints, to be not more than eight feet, and the

7528

liy-Law ends of all joists upon which anchors are placed are to be securely strapped or otherwise fastened together, so as to form a continuous tie entirely across the building. Where joists are put in existing walls they must be thoroughly anchored in a

> 182 STONE WALLS. All stone walls not more than twenty-four inches in thickness shall have at least one header extending through them every five feet in length of wall, and stonework when being built shall be levelled up at least every two feet in height. When the headers are to be placed in position, the headers in each alternate course shall be not midway between those in the course beneath

> 183 SIZE OF HEADERS All walls over twenty-four inches in thickness shall have the same number of headers as in walls of less thickness. All such headers must extend into the wall a distance of two-th.rds of the thickness of such wall and he langed with headers from the opposite side of the wall. All headers shall be not less than twelve anches an width and sax inches in thickness, and all stone built into any wall shall be laid on the natural hed.

184. CONCRETE WALLS The thickness of concrete walls shall depend on the quality of the materia, of which the concrete is made, and the quantity of each material used in the making of it, also on the method of mixing the materials and the system of binders and anchors to be put in the wall Samples of the material to be used in the wall shau, if required, be submitted to the Building Inspector, with the application for a permit to erect a concrete wall of any description

185. HOLLOW TILE AND POROUS TERRA COTTA BLOCK LINING OF WALLS. Where hollow tile or porous terra cotta blocks are used as lming or furring for the walls, they shall not be included in the measurement of the thickness of such walls, except in certain walls not over one storey or fifteen feet in height, where the liming course is of the same dimensions as ordinary brick

186. HOLLOW TILE PARTITIONS. Six (6), four (4) and three (3) men hollow tile or burnt clay or porous terra cotta or Portland cement tile partitions may be built, not exered.ng in their height a measurement of sixteen, twelve and By-Law for the first processor of the first processor

187 PARAPET WALLS. All exterior and division and party walls over fifteen feet in height shall be carried to a height of not less than two feet above the roof.

The front and rear walls, if facing on street, alley or open speker, and final-hold off with consens and gatters at the roof line may have the paragate wall ometted. Where a skylphict or purplet wall, the said paragate wall is to be increased to a largel of at least fourteen suches above the highest point of the skylpher rollablesed les a length of variously rise per cent more than the length of the und skylphic or bubblesed. Open failures the line of the length of the wall skylphic or bubblesed. Open failures the length of the length of the wall had been seen as the length of the they are built directly one the wall below, and of incombined the major of the class of the length of the wall of the length of the state was the length of the length of

188. DIVISION WALLS All buildings erected in terraces or rows outside those portions of the City comprised in the biest and Second Fire Limits, shall have division walls built so as to enclose two separate dwellings or other compartments, and the stud partition forming the division wall between the dwellings or other compartments, shall rest upon a brick foundation wall not less than mor inches in thickness, which wall shall extend up to the top of the first floor joists, and rest upon a stone, concrete or brick footing not less than eighteen unches in width and six inches in thickness, but no openings whatever will be allowed in this wall, and it must extend from the front to the extreme rear of basement of such buildings. and be built with hard bricks. The study forming the division walls are not to be less than two by four inches square, and be placed at not more than sixteen inches apart from centres. The studding to be lathed and plastered, the plastering to be not less than one half inch in thickness when finished, and to extend in all places to the floor line behind all base and wainscotting.

In all places throughout the partition the spaces between

- By Law the studs must be filled from the head of the partition below or as a bottom of jousts to a point at least as it inches above the floor line, with brick, term cotts, concrete or other incombustible material, the material to be feety in place by wood blocking, which must be securely fixed between the joists no each floor or cashing.
  - 189 FLOOR CONSTRUCTION All buildings of ordnary construction herafler exceed more than two storeys in height, which are intended to be used for stores purposes or the storage or manufacture of merchandes, shall have an underfloor in each storey, not less than seven-eighths of an rich in thelmess, and at vest one thoseness of not less than expounds to the one hundred square-feet of subsists paper shall be laid between the boards formume the under and finated floor
  - 390. BEAMS TO BE TRIMMED AROUND FILUES. All wooden bears shall be trammed away from all fues in a building, the transcer and header to be keep at least two inches from the outside face of the file. Wooden headers and tranmers are to be of such size and strength, and are to be framed or hing in woodpit root strengs, or stud or ron spit hangers so as to fully carry the load dependent on them without straining the material bewond the lime of sixty hereinbelow given.
  - 101 IRON CAPS, ETC. Wooden posts used in mil. construction shall have cast, wrought in mon steel caps of an approved pattern, so constructed as to form a base for the next post above. The girders must be properly secured to the caps, 27 shall have wrought non strapp on the outside, extending from one girder to another, and the straps shall be securely belied to each prider.
  - 192. CORNICES TO BE OF INCOMBUSTILLE MATERIAL AN electrac connects, undown sills, string courses and getters on buildings not more than two storeys in benefit heretire extend, sloter than provide devalents, shall be built of store the store of the strings, that is built of store or contract of the store of the state or terra cotta, shall be mode the outer face of the wall upon which such connect or other projection retus. If a cornice or other projection a constructed of metal it shall be supported as the store of the s

cases the walls of a building shall be carried up to the roof. By-Law boarding and where a correct projects above the roof, the wall 7528 shall be carried up to the top of the common.

- 193. CORNICES OF BUILDINGS TO BE SEPARATED. Free owners of axis absolute guidal the separated from the corne cot aim adjacency found from the corne cot aim adjacency found from the three parts in all confedered out a distance of two inches beyond all projects as a six and other more familiable of aim and be apprecised to the sun of the second form of the construct to probe all the use of a median counter on the buildings.
- 34. UNMER WOOD CORNICES. All externer wooden COMPAS PASS AND SET PROSPECTIVE WHICH AND A SET PROSPECTIVE WHICH AND A SET PROSPECTIVE WHICH AND A SET PROSPECTIVE WHICH A SET PROSPECTIVE WAS A SET PROSPECTIVE AND A SET PRO
- 195 BAY WINDOWS AND OTHER PROJECTIONS

  After or stop window, or bay or oriel window or other pro-

pet on, complex mere a ser a ser a sent, and name consects and finance on two halo regulates provide very any street line or active plan for provide. Par sed moneyer, that is substantially alter good and except to the animal very complex of services or a serial provide very consect. For some per complex of services or a serial very consect, for some per insection subject. Because the time permitted with a serial consect of the Council engagerated by resistant on Expert with a serial consection. See a serial consection of the council engagerated by resistant on Expert with a serial consection. The council engagerated of the council engagerate of the co

on REMOVAL OF AWNING Any permit sered in pursuance of the immediately preceding section may be cancelled at any time by the Council.

If after such cancellation such assuings or not removed with a a period of ten days, or if such assuings are erected or suffered to riman with suit a permit, the Inspector may remove such assuings at the expense of the owner or occupier of the building upon which such assuings have been erected. Ay Law 197 B. H. DINGS OF SKILL-TON CONSTRUCTION 7528. In all be dures at skeleton construction where the walls are

In all the offers of deletion convergancies where the stalls are centred i, the mean of a rendered context form, the hematomy walls shall it at he less than twente (12) and test in therefore the massing for currant walls is deletion negotiarrown small be the context for the context and their shall be provided for the land of the context and their shall be provided for the land of the context and their shall be about the context of the context and the context of the context of the land of the context of the cont

198. PIRE RESEL CONSTRUCTION. This type of constructure will be applied to all haidings in which all parts that carry weight in reset straws and a batter, and a lister and elevating reconstruction to be made entirely of incombustable material and in a. chall metallis structural incombers are to be protected by fireproof coverings.

10%. The materials which shall compose fireproof materials for walls are .....

- (a) Brick
- (b) Stone
- (c) Concrete
- (d) Terra cotta (c) Hollow-burned clay tiles
- (f) Cement block or tile

### And for non-bearing partitions:-

193 A combination of pure gypsum and fibre not less than two inches thick

A. Cement plaster in metal lath applied to metal studding and with a total thickness not less than two inches.

(1) Cement plaster in fabric, combining metal lath and metal studding and with a total thickness not less than two inches.

- 200. The materias and construction of fireproof covering By Law for metallic members shall be as follows.—. 7528
  - (a) Br.cx not less than four (4) inches thick, outside of the extreme metal flanges and all hollow spaces behind the arcick filled sold with fireproof materials. Such brick covering shall be thoroughly bonded.
    - (b) I ohow the and barned clay porous terra cotta or concrete blocks not less than two 21 menes thek outside of the extreme netal flanges. All such blocks, if made hollow, shal, have flanges and webs at least five-eighths 15g inch thick, and webs not more than six (6) inches anant.
  - (c) All such blocks are to be applied to the meta, m a bed of cement mortar and the hollow spaces behind the blocks snall be filled solid with fireproof material
  - (d, Al. such covering shall be firmly secured to the metal.
  - (c) Uncrete applied directly to the metal of the constructive members, or on metal ash, and at least one and a half 12;3, inches thick outside of the extreme metal flagges, and with follow spaces behind the coverings filled sold with freproof material. All such covering shall be firmly secured to the lower flanges of girder and beams by were on metal class.
  - (f) Metallic structura, memoers, located in external walls shall be protected on the outer side by at least eight 8) inches of brick, or six 6) inches of fireproof material or combination of any two.
  - (g) In skeleton construct on the plates and shelves carrying walls in fireproofing may come within two(2) notes of the face of the wal.
  - ik For columns entirely surrounded by fireproof blocks, these blocks shall be securely bound with wire of not less than fourteen (14) gange.
  - All column coverings must extend from the constructive floor, arch or slab of a storey to the underside of the arch or slab of the storey above.
  - (j) There shall be no pipes, wires or conduits encased within the fireproof coverings of any columns:

50 ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

By-Law 7528 (k) The thickness of the fireproof coverings herein prescribed shall be exclusive of any plaster afterwards applied. Lath and plaster alone shall not be considered fireoroof.

(I) Gypnum blocks and tiles shall have not more than six (6) per cent by weight of fibre and webs not less than one (1) unch thick, and the mortar used shall be of the same material or of Portland cement.

201 The floor of fireprior construction shall be made of — (a) Brick arches not less than 8) inches thick, having ample rise, well keyed and laid in cement mortar.

16) Hollow bursed clay or terra cotta or cement floor beeks not less than cight (8 mches deep, having proper skewbaces and key; also slocs to fit the meta, beams no. low blocks shan, have webs and ribs not less than five cightiss (§§) nich thick. Such floor blocks shall be laid in cement mortar.

(c) Reinforced concrete made as hereinafter described in Article No. 204.

4d) Other incombinatible materials which have been

accepted and approved for Foor construction by the National Board of Fire Underwriters and by the Inspector of Buildings.

202 Where wood floors are used over fireproof conatruction, the entire space between the top of the floor construction and the underside of the finished floor shall be filled with concrete.

203 Ceilings in herproof construction shall be entirely of freproof material, and when used for ceilings only they may be drught construction but must be so constructed that they bear no weight of floors or roofs

## REINFORCED CONCRETE CONSTRUCTION

204 PERMISSION TO ERECT Before permission to erect any reinforced concrete structure is standa, compute crawings and specifications wast be find with the Building laspector showing all the details and the size and position of the transforced rods, strurgs, etc., and giving the composition of rice concrete, provided, however, that permission to erect any By-Law reinforce, concrete does not at any manner amply the accept-ance or a provided the construction unto later tests have been made of the actual construction, to the satisfaction of the Building Emperior

20) PROPERATION OF CENERETE AL concrete uses, in the construction of buildings shall be mixed in propositions critically assumed to the construction of buildings shall be mixed in form of the construction of said and four parts of committees that me parts of creams those regressions of the many times as may exceeded in the most the resistance of the mixture to creaming not less than two thousand four handred pounds are sustance in the third parts.

200 METHOD OF TINITIO. The test to determ ne he strength of such cerners must be made by a competent enginerer, emplayed by the owner of the widing 173 the contractor, and such tests as well as the preparing of the rentare for the same fail by must mit the precion of a fail winder the direction of the flips dring Inspector or his author real assistants.

At ren't reed concrete work extering into the construction on stand stading sha, be made a like material and mixed in the same properties and in the same manner as that provided in the foregoing section hereof.

207 MIXING OF CONCRETE The concrete ased in enforced concrete construction must be what a usually known as a "we" mixture and all concrete shall be thoroughly mixed by machine to an even outform comissency.

When a section or usual of reinforced concrete or any

revised concrete member a started, it must be finished in an enterpt before autiting down for any purpose which will entail a celly if more than burty minutest duration and any batch or remnant of concrete which has been allowed to stand until it begins it, set must be at once removed and must not be mixed and used in any portion of the work.

208 PUTTING CONCRETE IN PLACE, ETC. A.I. concrete must be placed in forms in its Snal position as quickly as possible after being properly mixed and particular attent on must be given to the thorough puddling of concrete around all reinforcement and inside the lower fanges of all beams, so as to

By-Law make the entire mass a monolithic body entirely free from voids 7528 or unfilled portions

- 209 OUALITY OF CEMENT Up.v high-grade Portand cement shall be used in reinforced concrete construction Such cement when tested near small after one day in our devolon a tensile strength of at least to a hun fred or unds our ou tare inch and after one day in a r and six days in mater shall develop a tensik strengta og at least bye hundred pourds per square inch, and after one day in air and to enty seven days in water shall develop a tensue strength of at least six undred points per square inc . Presided aways, that a copy of a statement of the result of each such test of the covert to to used in any concrete construction duly cert fied by a competent engineer approved by the Building Inspector shall be filed with the Building In spector, before the said cemert is used in said construction Other tests as to bucness, a ustanty of volume etc. made in accordance with the method a recognized standard specifical tions for cement," shall be fermished by the contractor when deemed necessary by the building Inspector
- 210. SAND The sand to be used must be clean, sharp and coarse, perfectly free from loam or dirt.
- 211 (RUSHED STONE OR GRAVEL. The stone used in the concrete shall be close crushed stone or gravel of a size that will pass through a one-inch ring
- 212 METHOD OF REINIORCING All remforcings sites, shall be completely encoded in the concrete the theorems of concrete on the bottom of exposed side. I am remforcing steel member of a livel ensure we grider or cetlmen shall not be less than two niches and these side, not be of less thecoress than one men on the bottom of the sited in a floor slab.
- 233 JAJONNESS OF COMERDID BETWEEN REIN ORCEMENT RODS. The stee, in antiels, beams or girders shall no disposed not its, there shall not be less than one and a half times the trackness of the stee, in concrete between the different precise of steel of which the renorderment is composed different precises of steel of which the renorderment is composed.
- 214. STRESSES. Remforced concrete shall be so designed that the stresses in the concrete and the steel shall not exceed the following limits:—

Pounda per	ng. incb	By-Lav
Extreme fibre stress on concrete in compression		7528
1, 2, 4 mix	650	7 7807
Concrete in direct compression not reinforced, 1, 2, 4 mis.		
n piers under five diameters in height not to exceed	500	
Shearing stress in concrete	50	
Concrete net reinforced, 1 3, 5 mix, direct compression		
as in footings	208	
Pensae strength in steel	16,000	

2.6. AD. ESIGN OF CONCRETE TO STREET. The advession of concrete shall be assumed to be an expected than the shearing strength of the concrete

217 MODULI OF ELASTICLY The rate of the m dali n elasticity is concrete and steel soull be taken as one to fifteen

218. BENDING MOMENTS. The following assumption shall ou do in the petermination of the bendung moments due to sidered as a may supported at the ends, no acovarce being traum for continue as construction over supports, and the bending moment for a uniformly distributed lead on such reember shall be taken at not less than "" where W is the uniformly distributed oud in pounds and L is the span in inches. Reinforced concrete slabs shall be of a tasckness of at seast onethirtieth of their span. Beams and gorders shall be of a depth of at least one-fitteenth of their span. Foor plates when constructed continuous and when provided with reinforcement at up of plate over the supports, may be treated as continuous beams, and the bending moment for a uniformly distributed load, taken at not less than ". But in the case or square floor plates, which are reinforced in ooth directions and supported on all sides, the hending moments may be taken at "s

The floor plates to the extent of not more than five times the width of any member or girder, may be taxen as part of that beam or girder in computing the moment of resistance By-Law 219. MOMENT OF RESISTANCE. The moment of re-7528 sistance of any reinforced concrete construction under transverse loads a fall by neterin ned by formulae based on the following assumptions—

in. The bond between he concrete and steel is suificient to make the two materials act together as a homo-

geto is mass.

(b) The syan in an fibre is directly propertionate to

the distance of that fibre from the neutral axis

(c) The modulus of elasticity of the concrete remains

constant we tour the I mits of the working stresses fixed in this By-Law

(d) The tensile strength of the concrete shall not be considered.

220. SH., ARING STRESS AND ADHESION When

the shearing scresses, developed in any part of a ren infeed concrete or national on severed the safe working attempt of a content as fixed in this invitant a sufficient amount of steel shaw or introduced in such position that the deficiency in their resistance to shear is correcting.

When the site I mit of addresson between the concrete and sked is exceeded provision must be made for transmitting the strength of the site, to the concrete to at least such an extent as will bring the addresson to within the safe limit fixed in this BioLaw.

221 REINFORCED CONCRETE COLUMNS Reinforced Concrete Columns—Limit of Length—Per Cent of Reinforcement—Bending Moment in Columns—Tying Vertical Rods.

der irred regresse may be used tor cofe max in when the connecte shan, one of senser than 1.2 4 mexture, and when the ratio of cognitive to least used or distincter coce, and record truster, but no cace, switch the cross sect on of the column be less than a styliciar square author. Longstudinal resultation greds must be not move than tolerot times the least distincter of cold and me testing cognities and the connected of the column conductive times the least distincter of cold on the meaning of the connected of the connected of the connected of the meaning consistent of the connected of the connected of the caced, candidering reds shall be used, equivalent to not less than one-shift of one per cent 1.5, of the cross sectional zero of the remificioning cross shall not be used to have a prize of the order of the remificioning cross shall not be used thou one space and that no red or has be of smaller durantee or less divisionis. By-that me shall find. The area of the rendering compression, 738 risk shall be be tell to there per cent of cross sect onal area of the c. ham. Vertack, resel receip code shall extend space, per consistent of the constraints of the con

222. When her reinforcement comusts of extract hors and serial housing the concrete may be remosed to we fear hold it is to do servicely, provided that the amount of vertical error frequently to use with an the amount of the spiral reinforcement, not greater than eggl ser cent of the area within the contract of the spiral reinforcement, not greater than eggl ser cent of the area within the cental of the spiral reinforcement, and the spiral report of the spiral report of the spiral regime of the spiral regime

as such columns, the action of two beings, may be assumed by a concent the resistance of the control examined to this one last times the amount of the spiral hopping figured as secrate profit forcement. No part of the concrete outside of backing, shall be considered as a part of the effective column decrease.

223. In all cases where reinforced concrete columns rest, age in griders, walls in foundation, contine species either weight in case iron or steel hearing plates in bases, must be provided. The plates in bases shall be of authorities to distribute the load which me column supports to such an extent that the compressive stress per square inch on the grider, wall or foundation or other previous forms and the control of the providers of the tableword in this 192.

7528

By Law Law for masonry, brickwork or other different kinds of concrete, or if the girder, wall or foundation or other pier is constructed of material, the strength of which is not specially referred to in this By Law the plates or bases must be of sufficient size to distribute the load to such an extent that the safe compressive strength per square inch allowed by standard engineering automities on such material will not be exceeded , he mates or pases must also be either of sufficient thickness or be braced or webbed so as to resist within the amit of a ress all wed in this By-I av, the bending and s earing stresses to which they was he subjected by the columns and the ends of all reinf, reing ross must be milled or sawn off normal to the perpend cular axis and eac i must have a full and perfect bearing on the plate or base

> 224 TESTS TO B. MADL 3) THE CONTRACTOR ON LEMAND. The contractor shall be prepared to make and sha,, make load tests on any portion of a remforced concrete construction within a reasonable time after crection and as , from as may be required by the Inspector. Such tests shall show that the construction will sustain a had of three times that for which it is designed without any sum of factors. No concrete work shall be done in freezing weather, except when the influence of frost can be and is entirely excluded

## HOLLOW CONCRETE OR COMENT LLC. KS

225 The exterior walls of buildings may be constructed .rum the first floor joists up with hollow concrete or cement backs provided the blocks meet the requirements hereinafter specified and that the walls are made of the same taickness as nergy seture specified in the tables for brick walls.

226. The blocks upon which the joists rest are to be solid and if special blocks are not used, joints must be hung in iron hangers, and if blocks ha e to be cut to allow joists to enter the wall, the spaces in the blocks between the losts shall be filler, in solid with concrete of a similar description to that of which the blocks are made, and all portions of the walls, also all mers or buttresses which support beams or carders causing concrutrated loads shall be sould blocks and of sufficient strength to sustain within the limit beremafter specified the full load for which support is intended

227. The bollow space is a back shall not exceed one. ByLam both (1,3) of the superioral zero, and is, shown bit of 7288 used which will at the age of twenty eight (28) days creab at feasi than one thousand 1,000 pounds per square unto flow days are at a block in a val, per or butteres while be subjected to a grean zero shown in bordering the period of the period

"28. The manufacturer of any such blocks shall, better commenting the execution of a starturium with them submitted assumpts to the Inspector of Buildings for approval and at his own expense and under the supervision of the Inspector or his representative, asset at any and all times such tests made as may be required.

22%. In eight 83 mer book shall ie deemed the eign is bent diene til bergin til tilstenes of measure, and the increment of truckwess shall be not less than four id incress for a half a brock but no tex. 10) met, block shall be substituted for a wall thirteen inches in thickness.

230 Blocks shall be aid it cement and ame mortar and be well bonded or tied together

231 Where two or more blocks are required to attain the required thickness of wall such clocks shall be and alternate v to secure a proper bond.

# STRUCTURAL CONCRETE TILE

 dy Law tool e-mot tre may be used in place of a thirteen-mon bries, 7528, wall

- 233. Where a greater the exacts of wall than thatteen inches is specified, two tiles may be used provided that a sufficient bond is given to tie the wall together.
  - 234 Where such buildings as specified above are or greater height than three storeys, structural concrete thes may be used for the walls of the upper three storeys.
    - 235 In all walls, the tile on which joints rest shall be filled with concrete, or else joint hangers shall be used.
  - 236. Structo a concrete ties was be use, for walls of σε γ τes stores and warehouses, and where such walls carry only the weight of the roof.
    237. Structous converte tiles for wall, purposes small be
    - wa, or a meeture the proportions of which shad be not less than one part fortland cement to four parts of coan sharp said remarked some and shat, he made by the wet process, and fall not be used in the wall until at least three weeks old.
    - 238 The inspector of Buildings may at any time select tile from the stocks on hard and have same tested at the expense of the company making same.

#### CAST IRON

250 CAST IRON NOT LLSS THAN ONE INCH IN H.K KNESS. Cast tron subject to crushing strain only, as in yearing plates, may be loaded to the extent of 16,000 pounds to the square inch of area where not less than one men in thickness.

- 240. CAST TRON USED AS LINTELS, ETC. taskron used as lintels brackets or corbes shall be so proportioned that the compressive strain upon it will not exceed 13,000 puinds per square meh, and that the tessile strain will not exceed 2500 pounds per square inch. as section.
- 241 CAST IRON FOR COLUMNS. Cast iron used for columns shall be proportioned in accordance with the following formula:—

ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

59 By-Law 7528

For Round Cast Iron Columns 10500 A

600 D 2

S...... Safe load in pounds L..... Length of columns in inches

A Section of area of column is square inches

Diameter of column in inches

For Regular Cast Iron Columns 10500 A

=1 L 2

Safe load in pounds

Length of column in inches

. Section of area of column in square inches . The least side of the rectangular column

242 MINIMUM DIAMETER AND THICKNESS OF AST IRON COLUMNS E.C. Cast iron columns shall have a commeter of the loss than five vectors and a thickness of metaof not less than three quarters of an neh nor shall trey have an ansupported length of more than twenty times their least lateral dimension or diameter, except when they form part of an elevator enclosure or sta rease. The top and bottom flanges, scats and lugs shall we if ample strength and be reinforced by filletts and brackets and no lug bracket or flange shall be less than one nor in trickness when faily finished. The flanges of all co, many shall be faced off to a true surface percendicular to the ax s of the column and where columns are used mit ers, one as we the other their ends shall be builted together with not less than four holts each, not less than three-quarters of an auch in diameter. The core of a column below a joint shall not be larger at the flaure than the core of the coumn above, the metal in the lower column shall be cast with a taper towards the end not less than six mobes in length, or a soint plate may to inserted if of sufficient strength to distribute the load. Al

# 60 ERECTION AND REMOVAL OF BUILDINGS. FURE LIMITS, ETC.

By-Law base plates for east iron columns shall be either turned or 7328 planes off on top so as to provide a proper bearing for the lowest column.

- 243 The base plates of cast from columns shall be so proportioned as not to cause greater stresses in the materials on which they rest than those given in section
- 244 If the loads on columns are of such messay that he have cannot readsh be cast in the lower column, then there are the lower column, then there and case françe reinforced with neverted brackets and factor françe reinforced with neverted brackets and factor for brackets and factor and case françe columns are to properly databased to be load over the lower fluence, and shall have an ITE to brack the load over the lower fluence, and shall have an ITE to brack the load over the lower fluence, and shall have an ITE to brack the loads are lossed to be reads above, not less than always are the shall of the columns seek as the same years for the loads are to be always as the loads of the columns are to be always as the loads of the loads are to be always as the loads of the loads are to be always as the loads of the loads are to be always as the loads of t
- 245 C. LLMN-STC B.7 IEs., ED. All rest ron columns adul be tweequbly setted and anypotent-soften being plated in poet-tue, and of the area of the cross section of a column is recorded as any point by how holes or other ampreciotions to the catent is the per cent, or a fine core has switch so that the than or it is other, saint column has, be condomerly than or its other, saint column has, be condomerly columns and the column has considered as cack columns as the manufacturer of an on-the upper and one on-the lower side of the column as cast, to enable an inspection of the tile clinics to be made to the column as cast, to enable an inspection of the tile clinics to be made.

Each test Lole shall be located about eighteen inches from the centre of the column

#### STEEL

246. MAXAMUM FIPRE SIRESS. An girders and beams made of solid rolled steel shall be so proportioned that the maximum fibre strain will not exceed 16,000 pounds per square inch.

24: RGLLED STEUL BRAMS USED AS GIRDERS. Where two or more I beams are used as a girder they shall be obleo, together with standard cast iron or special diaphragm separators at intervals not exceeding three feet.

All beams twelve inches and over n depth shall have at By Law least two holts to each separator 7528

248. PLATF GIRDERS. Rivetted plate girders shall be designed and constructed of materials the strength of which are

at least equa, to those developed by the following formula —

Maximum bending moment in inch pounds

Nett flange area—

14000 x distance between centre of gravity of flange in inches

The compression flatter of plate griders small be secured

against buckling if its length exceeds firty times its width.

If spinors are used tiey shall be of sufficient area to finity
re, lace the members spliced in either tension or compression.

Gross web area

Maximum vertical shear

9000

Ettl attiffeners shall be used in al., plate girders and shall contain shifte entrivets to transmit the vertical shear from the web to the bearing

In emediate at feners aball to placed in all gorders carrying crocen rated I ads, they shall be placed immediately under the load and shall have sufficient strength to earry the load as a column and be connected with a sufficient number of rivets to transmit the stress on to the web plate.

Intermed are utilineners shall be used on all girders when the int supported depth of it is web plate exceeds sixty times its timckness, as in there as no exceeding one hundred and twenty times the timestance of the web. The ends of all stiffeners shall be included to 6t the flanges of the girders. Rives spacing in the flanges of all be determined from the noment diagram.

There is all be sufficient number of rivets in the flange connection to the web activeen any two points on the same side of the point of max main moment to take the stress due to the difference in the bending moments at these points.

The length of rivets between heads shall not exceed four times the diameter

The pitch of rivet shall not be less than three diameters, and not more than four inches in end panels, nor more than six inches in every case. By-Law 249 RIVETING OF STRUCTURAL STEEL. The dis-7528 tance from centre of a rivet hole to the edge of the material shall not be less than --

§ of an meh for ½ meh rivets
§ of an meh for § meh rivets
1½ of an meh for ĕ meh rivets

1g of an inch for g inch rivets

It of an meh for 1 meh rivets
Wherever possible, however, the distance

Wherever possible, however, the distince shall be equal to the diameter. All Trives where prescribed shall be meanther driven. The rivests in connection shall be proportioned and placed to not, the armenes. The price of rivests shall never be desired to the armenes. The price of rivests shall never be fast the direction of the streat it shall not exceed unsteen time. In the direction of the streat it shall not exceed dusteen time east triveless of the outside member. All tolds shall be practical accurately, so that apon assembling a cold river will entire the extension of the outside member. All tolds shall be practical accurately, so that apon assembling a cold river will entire the extension of the outside member. All tolds shall be practical accurately so that apon assembling a cold river will entire the control will be shall be the shall be been passed. If the bodies completely, the brasis shall be been passed, and concentrix with the axis of the river.

280. B. LTIAG OF STRUCK RAY LANGE Where methods and undermadatory, connections may be effected by lasts. These buts shall be of miled steel, and trey stall have student, breaded, shall be ful and clean, the net shall, be told concentre with the bold, and tae thread shall, be of sufficient length to allow the must be foreved up ugutly. When bolts got trough baved flanges, bevel washers to match shall be used so that need and out of bot are sortfell.

251 FRAMING AND CONNECTING STRUCTURAL WORK. The comrections of all structural stee, work shall be in conformity with the practice of variege, Trenton, Passe Penroyd, Jones & Laughlin or other first class roung nulls as published in their manuals or handbook.

Al. beams framed into or supported by coher learns or girders shall be connected tirereto by angles of a proper size and theories and have self-cent rivers or boats in both legs of each connecting angle to transmit the entire weight or load to the supporting beam or girder. In no case shall the shearing

or bearing value or the rivers or bolts provided for in this By- By-Law Law be exceeded. 7528

22.2 STEEL TREASES Insuses hall be of such deeps that the trivenes in each member on the calculated. All trissies as to be the rigidly in position by efficient systems of asternam and ways area go stress being placed so that the reasonam into of beight it east reduce (i gyption, established v) see toom, which texteed Any member of a triss sub-cred to transverse stress, in addition to direct tension or compression, the viver's extress caving gash warm added to the direct formed six in no case exceed the working stresses stated in time Br. Law.

I " for a members the actual wa area on a filter does, a, we some, energed into it great than the meste shall be considered as resisting the stress. If tension tembers are standed a flag to more relected mostly or enfange only, one, that flarge shall be considered in proportion of a person toned as present being into the Lisa. No solid shall be add in the consection of wested triowing country when the conversion of wested triowing country of the conversion of wested triowing country of the conversion of the con

Gussels shall be provided of subscient thickness and size to necommodate the number of rivers necessary to make a connection when a required by the Bu ding Inspector

253 SIEEL COLUMNS MORE THAN 90 R IN LENGIH For revoted or other Frens of steel columns from 90 R to 125 R in lengts

## 5. 17,100---57---

R

Safe load in pounds per square met
L Length of column in inches
Least radius of gyration of column in menes

Less than 90 R in length

For riveted and offer steel columns less train 90 R in

length 5 12,000

5-Safe load in pounds per square inch

# 64 ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

By-Law 281 KIVP FD 8.4EEL CO., MSS. The maximum 7528 and or rected columns small not exceed that determined by the following formula.

For riveted or routed forms  $\sim$  steel columns from 90 R to 125 R in length

5 17100—57 L/R

'S safe load in pounds per square inch L unsupported length of column in inches

R least radius of gyration Less than 90 R in length

S 12000

Steel columns shall not have an unsupported length of more than forty times there leas, lateral dimensions, nor so made of metal on angla less the kness than one qualiter of an oth-255. FiRE PROPERGING TROY OR S. DEFL, COLUMNS

As non or stee, colourse under resources abox is sup, or as per time it in external or party walls of an boulding to stress a right stall e-uncreased with not less than four recess of brooks as or when its ubustable material, no coled that this see on 8 or 1 to be or attract to include two columns supporting the resources animodiately over street allow und has in a total columns.

All tron crister ech nis vi any trie na, portion, fi a nor freproof building over two storeys in height except private dischings, soail axis be increased to a tinckness of at least two inches with freproof material, which freproofing is to extend continuously on such ci. aim if from bottem to top of the buildings, the covering of all lings and brackets to be considered as being included in this requirement.

256. W-OODEN COLUMNS. Where wooden columns or posts are used, the maximum loads to which they are to be subjected viall not exceed those determined by the following formula, S representing the maximum load —

257 FOR RECTANGULAR WOODEN COLUMNS.

A-Sectional area of the nost in square inches

D-Size of square post or least side rectangular post in 7528

inches

L-Length of post in makes

C - 650 for hemlock

700 for white pine or Norway pine

1100 for long leaf ye,low pine (Georgia) or B.C. fir

258. FOR ROUND WOODEN COLUMNS.

S 1 L 2

A-Sectional area of the post in square inches

D-Diameter of post in inches

L-Length of post in mehea

C— 650 for hemlocx

700 for white or Norway pine

700 for white or Norway pin 1000 for oak

1100 for long leaf yellow pure (Georgia) or BC fir

239 WOODEN BEAMS. The maximum loads to which timber used for beams or joints may be subjected shall not exceed show determined by the following formula, S representating the safe load in pounds —

B Breadth of beam in inches

D-Depth of beam m inches L-Length of beam m feet

C-160 for long leaf yellow one or Dongles for

120 for oax

100 for white pine or spruce SO for hemlock

260 MATERIALS, ETC. OF BEST KIND. The constants given in all the foregoing formulae are based on the use of material and workmanship the best of their respective kinds 7528 -

2 26 FORMULA GIVEN IS FOR UNIFORM LOADS. All formace neem green for determining the load permitted upon beams of any sind are for beams supported at both ends and faulternly loaded over their entire length. The formulae for country touch are for columns concentry sally loaded.

262 CALCULATIONS The calculations for the allow ance which must be made for other includes or loading shall be based upon the foregoing formulae and constants and the rules of the standard authorities or engineering practice.

263 ECCENTRIC LOADS Asy iron, steel or wood common or post eccentricacy loaded shall have the stresses caused by save recentricity compated, and tre combined stresses resulting from such eccentricity at any part of the column, added to all other stresses at that part shall in no case exceed the allowable working stresses herein sefore given

204 HOW ECCENTRI. LOAD IN 30 BE COV SIDERED The eccentric load of a column sha, be considered to be distributed equally over the entire area of that column at the point next below that which the column is securely braced laterally as the direction of the eccentracty.

205 WIND PRESSURE Ad structures exposed to wind shall be designed to resist a horizontal wind pressure of their pounds for every square foot of surface thus exposed from the ground to top of same, including roof, in any direction.

In ro case shall the even-turning moment due to wind pressure exceed seventy five percenture of the moment of stability of the structure.

In all structures exposed to wind, if the resisting moments

of the ordinary materials of construct on, such as masourry, partitions, floors, and connections, are not sufficient to resk the moment of caloritors due to wind pressure, taken in any direction on any part of the structure, additional briging shall be introduced sufficient to make up in the difference in the moments.

In calculation of wind bracting, the working stresses we forth in this By Law may be increased by fifty per centum. In building shader one hundred feet in neight, provided the height does not exceed four times the average width of the base, the wind pressure may be disregarded.

decided by actual test

#### 266 WORKING STRESSPS. In addition to the working By-Law stresses already given, dealing with brickwork, masourly, concrete sood attent and rom work, the following (except in the control open and enables) are to be conducted to the property of the post and enablesh are to be conducted to the property of the post and enablesh are to be considered to the property of the one of the property of the

267 COMPRESSION (DIRECT)	
Rolled stees	46.000
Cast steel	16,000
Wrought iron .	12,000
Cast iron (in short blocks)	16,000
Steel pins and rivets (bearing)	18,000
Wrought from ome and rivers bearing)	15,000
Granite	14,000
268 TENSIONS (DIRECT)	
Rolled steel	16,000
Cast steel	16,000
Wrought Iron	12,000
Cast iron	2,500
Long leaf yeow pine	1,440
White oak	1,080
White pine	900
Spruce	900
269 SHEAR	
Steel web plates	9,000
Steel shop rivets and pins	9,000
Steel field rivots	7,500
Steel field bolts .	7,000
Wrought fron web plates	7,500
Wrought iron shop rivets and pins .	7,500
Wrought man field rivets	6,000
Wrought aron field bolts	5,500
Cast ron	2,500
With	Across fibre.
Long leaf yellow pine or Douglas fir 70	540
White oak	550
White pine 42	312
Sprince 42	400

## 68 ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, LTC.

By-Law 7528	270 EXTREME FIBRE STRESS (BENDING)						
	Ro.led steel beam .	16,000					
	Rolled steel boits, rivets and pins	18.000					
	Riveted steel beams (not flange section)	14,000					
	Ro.led wrought iron beams	13 000					
	Rolled wrought fron pins, rivets and bolts						
	Rayeted wrought from beams (not flange section	.2,000					
	Cast yron, compression side	15,000					
	Cast iron, tension side	2 500					
	Long leaf yellow pine	2,440					
	White oak	1,080					
	White pine	900					

Hemlock

271 WEIGHTS OF MATERIALS. For the purpose of communing the weight upon floors, walls, piers, columns and thereto presents the rilliance state of the way shall be taken as the weight of the materials.

ther suspens their likewing shall be taken as the we	ght fith
materials —	
	Fre a
Pine or hemlock (dry), per toot, board measure	2
P.ne or hemlock (green), per foot, board measure	+
Yellow pine (nonthern), per toot a sard n castire	4
Yellow pine (northern , ser foot hoard measure	4
Brickwork (ordinary), per cubic foot .	112
Brickwork (pressed), per cubic foot	140
Stonework (mortar rubbed), per cubic foot	45.5
Sandstone masonry (well pressed) per came foot	145
Grante or amestone masonry, well dressed per co	ibic
foot	105
Slating, per square foot	8
Tiles (plain), per square foot	15
Late and plaster on side per square toot	6
It air ply felt and gravel roofing, per square toot .	6
All other materials as given in standard engineering	house
t i ofuci mater an an a ten in simulate e-street un	MOUNT

27 LOADS, BLOORS AND ROOFS ARE TO BE PROPORTION TO SUSTAIN. In effects of all buildings shall be designed and constructed so as to have sufficient strength, according to rules serent-before given, to sustain weights to which the proposed use of the buildings will subject them and in add ton to the weight of the materials of which ther is constructed provision shall be underior the two coads. By-Law mentioned in the following paragraphs for the different classes. 7528 of buildings for every square foot of floor surface.

(a) Dwelling house floors, fifty pounds.

(b) Lore,s apartment houses enements and board ing schools or other haildings used as dwellings, fitty peands in the presate risons or apartments, and seventy five pounds in the main entrance halls.

(e) allows in office buildings, seventy-five pounds, cock that lob resent their parts for common use of the library at each because in indeed some an adjectiful ground flow through the ground twenty-five pounds.

Public offices during corres, sices er rouris for public use, one handred pounds

t in which, theatres public bulk 1,75 and 51 res for light merchandise, one hundred pounds. (f. School room floors, eighty five pounds in rooms,

and one hundred pounds in a redors and lobbies.

(i) Ale is I ware timed tracter as and store ionaes shall be in intermed to the load they are intended to carry provided the all flows shall be constructed to support not less than one hundred and twenty five yourds.

h: I n floors ast included as this cassif call, in, and for floors subject o whether on fine mery, ir though of drill rooms, dancing and riding solucids, or where they will be subject to stress from two ingo resideled applied they pooling. He Building Engières shall determine the joud they are to be roometroused for.

23. 11 YP ROUFS. All one or reseave, Bat roofs a six be rup in such and or structed to sear adely a veryide of forty pounds; 15 the quarar feet, in add ton to the weight of fine material circumstribing are composed, and a l'roofs rung at a greater urder than twenty degrees shall be constructed to carry a weight of the very pounds to the quarar feet in addition to its own weight and to reset a honorous living pressure of their pounds per square foot in addition to the construction.

274 MANSARD ROOPS. If a mansard or other roof of like character, having a pitch of over sixty degrees, we placed

,,

By-Law on any building exceeding their) rise feet in height, from the 222 and self-ask or fin silving gate level, at shall be consistented with the 222 and self-ask or fin silving gate level at shall be consistented with wood rathers the space level and or so constructed with wood rathers the space level and or so constructed with wood rathers the space level and the space level and

27. If LK/II/AD OA SCL-TLES All buildings over test stress in neight shall have sevalited on buildings and sees in one time (verte b) durity notices feeding to the cost will repoper landers or starts leading tester from the floor below. In the cost of the cost of the cost of the cost of the before the cost of the cost of the cost of the cost of the feeding of the cost of the cost of the cost of the cost of floor, the cost of the cost of the cost of the cost of the floor cost of the lander of the cost of t

20. PEVI HOLNY, ETC. Pent bouses used as encourse for tasks and deviators and exercing for the min miner of elevators, or any other purpose swaterer beer, able eventure, me answer here of vice boundaries, abelia debut of does not work or of vice boundaries and label to does not work or of the purpose of the period of observations of the construction of the con of a pent house they shall be carried up as fire walls at least By-Law out teen mones along the rout of such pent house 7528

27. WAIRE LANKS. Water tanks restend over roofs by stongers and columns of route and the execution of a state time of the stongers and of channes of route, and the erroction of a state time of many insuling signs, and be commonded until fails and appears and a state of the stat

278 SKLIGHTS. All may this shall be constructed which is always the constructed which if a construction materials, and be glasted with heavy delighting takes. Schipften located at the top of it just courts or which the proceeding the construction of the construction

25° - NOW GLARDS. As note so constructed and become task the some with belogies on them is lable, to lide from said root on to the street side-saik or read, or and any place on a t enlarge put less stated by provider was spatificant enton grated to prevent this from taking place and if such agreement of the street state of the street street, after for any other part of a simulating street street, and the street street street street, and the street stree

280 STAIRCASES Any building over three storeys high and of an area less than 6,000 square feet, must have at least one fireproof staircase of a clear width of not less than three

By Law text tour mones, constructed on a consumous temporal cascours?

2528 extending time it are ground free for to the root, and provided with a set via at a to give and level — our bracking secondaring in a new areas of the book 200 square, we give in not more train 12,200 square feet to the control of the secondaria of the seconda

Landings, passageways and doors leading to enclosures shall have in all cases a clear width equal to the width of the standard.

In madings of the irepress construct of no portion is the building shall be of greater distance, had eights feet from the standard.

They seen and treads in states shall it is a registrate of that the stat may provide a fact and confortable line et al. and but the risi shall in the case be off greater angle that forwards degrees. An effect of state statill have a vertice, we see of more than tacker feet netweet floring or intermediate participations. The energy of a participant shall in its case be easy take the width of the state. No winders or single rise is in andrings shall be used. All stating shall have at least too enand rise.

All drops giving access to starcase enclosures must be self-clising, hinged frequoid doors with a polisised page wire gains arise, and shall upon into starcase enclosure with the exception of the door at the ground level which shall open

Staircase enclosures must be adequately lighted at all times when the building is occupied or open to the public

281 FOR BULLDINGS ALREADY CONSTRUCTED All buildings stready constructed more than two storeys mag except three store, buildings less than two thousand five hundren, upsare feet (2,500 in groun-arro, must have at least two means of cell accessible at such floor Late to each room on that floor, without going through any door capable of being locked from the side nearest the ext.

282 It shall be unlawful under any circumstances to obstruct the stairs or fire-escapes or approach thereto, in any

banding, and no charge in the position or construction size, or By Law made until permission so to do has been obtained from the 7528 Building Inspector

283. In mildings above referred to the width of the doors opening at the street level shall be at least equal to the width of starmans are timefore apenind, and such doors shall given contains and it is a fastened during visiness hours on which such mildings are occupied.

284								
have arres of the foot of mare feet	let to 4th	0411 to 1	un f	Ith bo 10	itte	13th for	dt -	to c?
25,000	30 ft	27	ít.	24	ft.	21	ít.	6
20.000	25 ft.	224	ft.	20	ft	174	ſt.	
15.000	20 ft	18	ft	16	ft	1.5	ft	4
1+.000	19 ft	17	ft	15	ft	13	ft	4
13.000	.8 %	6	ſţ	1.4	ft	1.2	ft	4
12 000	,7 ft	1.5	ft	1.3	ft.	1.2	ft	4
1,.000	16 ft	14	ft	12	ft	1.2	ft	4
10 000	15 ft.	131	ft.	12	ft.	104	ft	3
5,000	14 ft.	124	ft.	11	ft.	94	ít.	3
000.8	,3 ft.	111	ft.	10	ft	9	ft.	3
7.000	12 1.	101	ít.	1,	ft	6,	1	- 3
6,000	11 ft	94	ft.	9	ít.	9	ft	3
~,000	10 ft,	9	ft	8	ft.	7	ſt.	2
4.000	9 ft	8	ft.	7	ſŧ.	6	ft.	2
3.000	8 ft	7	ft	- 6	ft	- 6	Et.	2
2,000	7 ft	6	ft.	6	ft.	6	R.	2
The age	regate	odth are	nan	0.79	1.50	zways	ree	puned for

unidings to intermediate floor area us, given u the none table, shall be the still and number specified therein for the nearest given floor area.

No sich starway as above provided for shall e less than three feet in width

285. In sided becasers, that it aim such bit, dung not keep an otherwise provided for it constructed of fiepprofi material throughout and ineta, frames and saabes, glazed with wire glass, are used for all wire downs excepting those on the street front, and the ctars and elevators are constructed in freeprofi earlies and elevators are constructed in freeprofi earlies and elevators.

286. In all stuldings used for the propulations said on

By Law at each council founds duffs and an approved gornaler in-7528 term is usuallou, and a services of the bothing the mounter of standard and a service of the following the mounter of constant prison for that in the case with the energy learner of constant in such those mouths in during and provided further, real more expense for duffy of the mounter of constant in second terms, and and an application of the constant of the constant of the constant in second such as the constant of t

et in c. merel andisc the dat mays et all, in citations, et all of nessed and mate red fairt now a tree inhisit ble, may call of nessed and mate red fair in less trait to a not tree, accrete or an incl. I thus, may be more than the state of the material as the dailing the process of the dailing materials. The dailing materials as the dailing to sector in a superior. In retail to red the stateways may be published in the material as the other stateways may be published in the control of the dailing materials. The theory in the control of the dailing materials are the statement of the dailing materials and the dailing materials.

It have not every see shar was a harproof, griftion with own consister and weared to see some provided as a no extent can be easily as a see some provided as a not extent can be expected to be frame of our spine of a legister which is the provided as a legister which is the provided of the section of the provided of the section shall feet apply to any lounting which is easyly to the provided of the section shall feet apply to any lounting which is easyly to a summary and well-holes, with an automate something evident.

### FIRE ESCAPES

20 TIAE TS, VIS, ONE BUILDINGS OF TIRREY IN MINISTER AND THE MARKET STATES AND THE MARKE

288 Every such building shall contain at least one window on each storey thereof opening on the floor level of such storey and providing easy access to such metallic starway, and every By-Law sacca window sha, be constructed in the action metal stable. 7528 as glazed with write glass, c made to open from the anade state of and stall to use kept scared by nodes but shall be statement on its under write stable movable bolts. Every such starway that the statement of the under write stable movable bolts. Every such starway that the provided with the statement of the st

- 289 TIRE ESCAPTS FOR BUILDINGS OF MORE THAN TWO STORIES Every behanding used for a hotel etc. in sext-no. In natively, hongical auglium or institution for the care of treatment of individuals of for any other purpose stories for chandred in more personal are conjugited at zero contention, the confidence of the comparison of the purpose stories are not pressing through any other comparison to a section of the confidence of the comparison of the personal, cut of which is placed in front and one in the rear of the building.
- 290 WRITLEN NOTE I TO ERECT FIRE ESCAPES It shall be awful for the Luiding Inspector, and he may at any time a subset n aritims surved upon the owner, essee or occupan, of any building rock to such owner, lessee or occupant or an of mem to cause such metallic starryays or fre escapes to be added to placed anon or in such building within thirty days after the service of such aotice and any such suner lessor or occupant, or any of them, so served with not ce as a presa di who shall not within thirty days after the service of such rouse apon in or tiem, add, place or cause to be saced such metallic stanway or stairways, metallic fire escape or are escapes or fireprior stall was appropriate in such as loang as required under the terms of such notice, shall be subject to the penalties of this By-Law and to like penalties for each week of such reglect to compare with such notice after the expiration of the time herein limited.
- 201 PI NNS RF FIRE ESCAPES. Plans showing tree privated acid in also plans and specifications for the preposed construction of a fire escapes on any bailding, shall be subnition to the English of the proposal within two weeks after he law sent the notification to creet such fire escapes, provided. Lowever that no fire escape shall be erected or commenced anti-

By-Law the slans therefor shall pare seen approved by the Inspector of 7528. Buildings, and in no case with a fire escape be permitted to extend over any street or public lane.

292 FIRE ESCAPES TO BE KEPT IN REPAIR All fire escapes must be kept in good repair at all times and free from su wand ee in o structions or er cum mances of any sand whatever.

Balance weights for lower section of stairway escapes shall be loxed in to prevent the falling of such weight on to stairway

203. Nothing contained in Sections No. 282. In. 203. and clieve shall be interpreted to give the right eter prolego to any person firm or constitute to entrust a fire escape extending over any street inglineary or late. It was that there shall it is no obstract ass in any public street, highway or late.

204. HALS STO. 2011. ROLLERY FIG. FED. 287. WIGHT In all hoods temporary factions, manufactures.

worsh ps., whosh, until use for the care of macros remained college, in contain his or places of amountment or rotter pages mentioned in the ProLow, the tillhows and uniforms shall highly of better and at the approaches to all even there is take the key during the right a red left means such band given merchand and me with neglection of a stars and the proposed pages of the property of the prope

F-scape "at or near the ex t to said fire escape shall be placed in conspicuous places

conspiresons piaces.

In place of the above-mentioned fire alarm system automate are alarms may be installed, if approved of by the Building Inspector.

### ELEVATORS

265 INSEECTION All housts or elevators interded to be used or in use for the transfer, carriage or elevation of goods, wares merchand so or passengers, and erected, constructed, By-Law built in part, juild maintained in any store, along warehouse. 7528 hotel or other building abail se constructed, erected and maintained kept in good order and repair to the satisfaction of the

296 FXPFRH VCF AND AGR OF FLEVATOR CPFRATCRS Every passenger elevator except 1 private dwellings occupie by me fam in, must be in charge of a competent aperator, if re-able and industrious hab 14, not less than switcen years of age

dulding Inspector

In case the Inspectue of Jindings shall accome statisf of that the person engaged in operating any elevator is meanpetert and signalified from any cause to continue to operate the same the one or person, currolling the eventor shall appear or the notice from the Building Inspector at once replace the said operator by a competent operator.

207 GRATING OR SCREEN TO BE USED Immediately under the aneaves at the top of every elevator shaft in any mildior, there shall be placed a substantial grating or acreem of incident and of since construction as shall be approved by the Building Impector.

298 ANCE ON RE OF ELEVALOR MACHINERY
All parts of elevator mach nery must be enclosed properly and
such enclosure must be lighted. Free and safe access must be
provided to all parts of elevator machinery.

299. LOCATION OF BLEVATORS. No elevator shall be placed in any building in such a way that any portion of the platform or hatch way of such elevator could be used as a passages at or for any other than elevator purposes.

300 CARRYING BEAMS. The carrying beams for overhead machinery of all elevators shall be ,ror or steel. The journal boxes shall be closed type.

301 ALTERATIONS. In making any changes or alterations trelevator shafts rails, overhead muchinery or power, all the work must be made to conform to the present law and regulations.

### ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

78

By-Law 302 ELEVATORS NOT 7.0 BL USED AFTER IN 7508 5 bts. (F. RHA-BECLARED THEM DANDERULS 1: State unlabel), or it is extended to person, as charge of any building, in when there is an devator or heart, o permit the use of the same after being notibed by the Building Inspector that of the same after being notibed by the Building Inspector that of the same after being notibed by the Building Inspector that of the same after being notibed by the Building Inspector that of the same after the same af

QU. FITVATOR ENCLOSURES. In all bundings combining one or now else into or elevatives the shalf of every sub-elevative or existence shall be exclusive with frequency and in earlier of the shall be exclused to the exclusive and new terms of a force of the shall be exclused from stary, to above, which shall be exceed from stary, to above, such elevatives and new terms of the shall be exclused in the exclusive and the open of the base diagonal which shall have a lock to perm to the first from of the base diagonal between the exclusive therein our the exclusive them even to the shall be forced by a say, gift and have a continuous there in the use of the shalf of a blank open one controlled the except the exclusive them in the use of the shalf. Subjects in the exclusive them is the except the exclusive them in the use of the shalf. Subjects in the except the exclusive them is the except the exc

50. WRITTEN NOTIL. TO INCLUSE LLEAVINGE.
STALES. I had be haved to the sea to do ading Dispector, and he may at any time by a motice in a ring streed given test terms at any time by a motice, in a ring streed given test over lesses or occupant of any. Ading repute used nower societies recognist or any of them 1: cause the elevator sealer of the season of s

305 NO ELEVATOR IN WELL HOLF. No elevator shall hereafter be constructed in the well hole of any stairway unless there be a frepriori partition between such elevator and such a sirway extending from the basement to a point not cess than three feet above the roof level.

306 PASSLAGER E EVATORS In recomplicating of planes processing clarate accessed or engine flower may be recorded as 728 at statement of a sta

All cless on an dejaranteeth stores shall be enclosed in arcprofiles, source from the lewest floor to a point above the root and all doors must be titled with punels of wire glass.

The First Conference of the Co

the clear to we be be wall to end used in non-regional fundamental and errors of  $\phi$  errors, and it break, the confidence means that material  $\phi$  excelled to disconditional plant modellies that was not affect and errors errors in a consideration of the following constant break for in a constant and errors and errors errors and excellent for a constant break for in a constant and excellent errors and excellent for excellent errors and excellent errors are excellent errors and excellent errors and excellent errors are excellent errors.

68. CWLRS OF BUILDING AND CITAR FOR IN-SPE TING LIVATORS. The Puilding Inspector will have the underfulted use of any clevator and the services of the operator of the same for the purpose of properly instituting such elevator at any time be may deem it necessary.

### THEATRES

309 FRONTAGE Every building hereafter crected or a tered to be used for theoretical or operatic purposes, or tor-

### O ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

Ly Law and timings for pub, contextamments of any kind, and every 528 building were slags sceness and spiraratus are employed, shall have at least ors truit in the public highway or street, and have such means of exit as a Lerematter provided.

100. A Sp. r., or I am standing, hereuree recorder accreted to need for the pore sea who edecated shall be occupied as a need for the port of the standing of the standing port o

201. MAPR at NATA TALLS, there shall be reserved to reserve as emerges events, an addition to the man not in frost 1 the military are yet upon at a cold as except for all others and both yet and a cold as except for all others and both yet and a cold as except for all others and both yet and a cold as except for a cold as

312 DIMENSIONS OF EMERGENCY LATTS. The width of such per space or space said of such corrotors in a because the many terms of such careful with the second of the such careful with the such graphs of the such careful per such ca

people and less than two thousand people, the said open space By-Law or spaces shall not be less than eight feet, where the seating canacity of the building is more than two thousand people, one foot wall be added to the width of each such open space and corndor for every five hundred people or part thereof in excess of two thusand Provided, however that the open space or spaces above provided for shall not be required for the abovenamed building if the total seating capacity thereof is less than six hundred people and if there are provided exits to the street equal in their total width of opening to at least twenty-two nches for every one handred people or part thereof that the build no will seat, and said buildings shall be provided with such fire escapes as the Building Inspector may deem necessary for the pubac safety

313 EMERGENCY CORREDORS. Corridors constructed as a toric spec fire, shall not be less than twelve feet in neight in the clear and any structure erected over or above any such corridor shall be constructed of freproof material. No suck corr cor shall be used for storage or for any other purpose whatsuccest except as an exit and must be kept free and clear from al, obstructions werens any performance or entertainment within the building

314 FAHRGENCY TXI's, STAIRWAYS AND CROSSAISTES There shall be provided at least two emergency exits on each side of the main auditorium or ground fluor, each at least five feet in width. Such exits shall be between the boxes are, the fover within plant might of the audience in the man additionium, and stall open into the space herein before provided for

An emergency exit at least three feet in width shall be proyided on eac I side of each balcony and gallery. Each such exit aga , upen of to an outside balcony constructed or goe at least tires and mo half feet in width, and from each such balcony a separate and ust not from stairway at least three feet in width. shal, lead to the ground buch starway shall be constructed is this rise of not over eight and one-half inches to the step and with a tread not less than nine inches in width. The said stairway sha, not land on any public street or lane out fone or more somes of the anoding borders on such street or one, the build ag sha, be set back the width of such stairway from the By-Law lot his. Such stalling shall be of ample strength and shall be 7228 provided with ample bandrails, and shall be subject to the pro-

visions of this By-Law

The emergency exits to such starways shall be as centrally located in their respects to balconics as practically, and there shall be provided a cross select legal two and one half feet, a width, extending across the full width of such gallers or half selections to such exits.

315. If any gates or down are used to close such cere down or open space, from the street they shall open contraval and shall fit stop peckets, also carranged that the opening through and gates of down shall could an evit the cor of sor or open and gates. On the shall be fastered on the made with simple by forces, but shall be fastered on the made with simple months boats, and during each and every perform and or eventtomers or said and other shall be fastered on the made with simple terminates or an extraction of the said of the Down of the said of Down outer soon of the said of the said on the said of the Down outer said of the sa

The outer side of the doors of all such exits shall be covered with fireproof material

It any balcony or gallery seats more than eight bundred people, then tiere shall be constructed such additional crossaniles, exits and stairways as the Building Inspector may deen necessary.

316. MAIN EXITS. Main exist from the auditorisms shall be at the erd is the bid bing opposite the stage. The doors of all exist a say sent building shall awing outstard. No exit shall be less shan for test is, with, except as become appeally provided, and there axial be provided exist it exists expected to the exist and the provided exist it exists. The exist is also shall be provided exist it exists the exist in the exist is existed as the exist in the exist is existed as the exist in the exist is exist. There exists the exists and distinct exists for the main.

floor balcony and galleries, opening into a common lobby, or to the street, and the widt of ea d lobby, and of the exits there from, shall at least equal the commend widths of all stanways, corr dors and passages as opening directly into such lobby

317 STAGE EXITS. There shall be at least one exit or each side of the stage not loss than four feet in width leading to the street or ally or to the open spaces herein provided for

- 318. A 151,E5. A r a set on the respective floors in the Bi-Law andhorous, has ing easten onbot a died of the hane, shall not be 75,28 less stat three fee, in widd where they begin and shall not exceed a widd howards the easts in the ratio of one and one-quarter increas no every five running feet. A sless having seats on one sold wis vialation to be status row and monetal feet in which is a status row and monetal feet in which is the the beginning and is shall be increased in which the same as a sales having easts no both sides.
- No carrider, aisle or passageway stall be reduced in width it any lace between the point of the beginning and the exit to which it leads
  - the shall be provided it each floor, salouty or gallery in the state shall at the rear of the seata sufficient space to accommonate the entire audience allowing one hundred and fifty square feet to every one hundred persons.
  - 19 There dal, be provided in a Leases, a freepood door tree, feet working, copening oursaid from he havement under the stage on to an introde aueroay of firety-not construction testing to the open space here thefer provided for, for the a strike he acer the building and the side-sald. I stark door he can be according to the stage of the side-sald. I stark door he re lost and the acer on each such airway, shall be protected above the ground with a strong iron rating at least three feet height. Provided always tax is such starway, patition or area, shall not erected upon the seven foot passage hereinheldere provided for.
- 320 EXTERIOR WALLS Exter or walls of all buildings used or intended to be used as theares, opera house, auditoriums, or fer otare buildings designed for public entertainment, were stage scenery and apparatus are employed shall be bust of firep-oof material, and shall conform as to thickness and strength to the requirements of this B). Law
- 321 INTERIOR WALLS As interior walls and partitions shall be of freproof materials, and their construction shall be subject to the approval of the Inspector of Buildings.
- 322 PROSCENIUM WALLS. A brick wall, not less than seventeen inches in thickness, and flucker where required by the Building Inspector, shall separate the auditorium from the stage and shall extend four feet at lesst above the stage.

84 3v-Law roof or the auditerium. Said freeza, shall be ecued with stone 5428

or Portland comes. Above the prosecution once ag there shall be placed at iron or steel gorder in iroughly protected with preprior materials, said gurder to be of sufficient strength and to have proper bearings to safely support the load that way e iniposed thereon. There spall wit he any opening through the said frewall

except the curtain coemings and near other coemings, two of orlice may be taxen below the stage, and twicen a level with the stage one or either side of the current opening. Neither of the four openings always provided for shall exceed twenty rate southers teed up Area, Area, All south onements shall be to be aded with Frepried disors. I such natural and construct in and installed to such a main report they we as self-energy No. word or when affairmable amerals shall enter into the canstrictions the francian and the prosect impressing an and frame shall emply accured the triscention by waise

323. PROSCENII A, C. RIAIN. The proscenium opening shall be provided with a fireproof curtain of pure asbestos. or of steel, or of a comb nation of steel and absestos-If the curtain is made of pure as sestion it shall weigh as

least two and three cour he penids per square word. Such cortain shall so at less twenty thus inches order than the price century centry everlances, the proceedings walls at least twelve meles at each side. Law, I menung and I, he hade to slide at each end within their groupes the run groupes to be fastered securely to the brown wal, such our a torall to fastered at both to and lattern to an iron nine at least one and three-courtly nobes a diameter an small be supported and exerated by wire ropes passing over iron palleys.

Whatever kind of curtain is use, a small be so arranged that it can be easily operated from the fly galleries and from wither sule of the staye, so, the construct in and installation of sucr curtain shal, he suivect to the approval of the bailding Ins geter and crathe thief of the Fire Department

The hie roof curtain sha se za sed at the commencement 44 eac 1 pertirmance or entertainment and lowered at the close of the same. The footly by shall be placed at a distance of at kast tw. feet from the said curtain at their rearest point, and the for the his trough shall be constructed subject to the approvaof the Building Inspector

- 224 SKYLIGHEN OR VENTHATTING SHAPES BY Law OFFRS 31. Subjects or a counting obtain or works or 7028 as any country of the country of the consistency of the as any country of the country of the consistency of the second or country of the posterior with the country of the country of the country of industry ones of the country of the country of the country of industry ones ones, and one of the country of the country of industry ones ones, and as a present of the country of the country of industry ones ones, as a page of the dispersion of the country of the industry ones ones, as a page of the country o
  - The well of miscalling and operating such skylights or vertaing such seall be subject to treapper varief the Building Inspector.

    325 STA JELEGOR All that portion of the Sagre floor.
  - rio, directly back of the contain opening shall be of foregrood with a contain any contain a finant environment on on the not shall be reported to the contain opening of any of frequent contains opening of any opening of the contains opening of any opening of the contains of the co
  - 326 TIMESTALLERIES MD RIGHMA OF I MARKETHER RESERVED AS A STREET OF SEC. OF A STREET AS A STREET OF SEC. OF A STREET OF SEC. OF A STREET OF SEC. OF A STREET OF A
  - M.N. M. datare to fly galeries and fit the semient under the stage shal be of iron or other ireproof material, and no such a talk relative from the fit of the stage shall be of iron or other ireproof material, and no such trains shall be cost that two foot on another ire with
- 328 DRENNING ROOMS. The salls flows, partitions unto compact and seen dressing rooms shall be of freproof or striction and seen dressing rooms shall not communicate direct with the stage except through doors of freproof material, and they shall also be provided out exits as prescribed under this By Law.

320 GRADIEN, SITO SLUBWALKS. To overcome an inference in level in and netween the sidewalk and sind open spaces or curdly systems that the employed of not over one fact in ter feet with no perpendicular rises; except one step if necessary, to the sidewalk level. The provision are regard to

By-Law grad ents shall also apply to make causts, corridors, labbies, pas 7528 sages and auxes where en the use of gradients is practicable

330. A DILOGIA M. .... GHF OF FLO. R. ADOME STREET, The groups from one the multineams, where it not needs will the local of foort; shall not be at a greater heighbor or below the street feet than a gradest through the viscosition of the street feet from such a treat vestible or he not more consistent than one step public of the greater of adecastle at the central restreams, somet, and in no case to a cook to grade of and street vestible to be not more consistent.

I i flexis ha couces galeries roofs, collings and partitions in with buildings tauless stream deliverse provided, shall be iron, steel and fire, exit materials provided that word flooring norms and he recessary sleepers to wreat the aims, may be fastered in ay be used but the expression in Asspers shall not be taken to mean time, are of support. Nothing merco ensurance shall not design to wooden wa amouting to a hingist of most interest of the provided shall not design to mode in a realizer shall not be used. The front of merco along mercaters and in construction.

33. CONSTRUCTION /IR. /ROO. A. materials used

freewof reacral troughout except that the coping or capping may be of wood

332 SPATS AND PLATFORMS. At leasts in the adversion of a platforms, received in the boxes or logist shad galleries, shad not be less that they are the statement of the statemen

If platform in balcon is normed to screwe seast small not be more than to equivamen moves in height of smer and in t less than i my-two incles in width. The ascent to scats in any gately from front to rear sila, not as of a greater angle than forty degrees with the borizontal share and no platform in the galler formed to receiv such news stall by less than to early eight inches in width. Such platform may be of wood, placed on too if the frenced construction.

A., seats in galler're shall be individual scats not less than nineteen inches in width. The use of beaches is prohibited

- 333 STAIRWAYS. All staurways outhin the building By-Law shall be constructed of fireproof materials, and shall, unless 7528 offerwise provided, be at teast five feet in width
  - In no case shall the ruses of any star used by the public exceed seven inches in height, nor shall any tread be of less width than ten and one half notice, exclusive of the rising

# No winding stairs shall ic allowed in any stairway, here shall be at least two independent stairways with

drest exterior sattes, provided for each balcoov and gallery in the adultion in and they what he located as are sparr as pracicable. In a caves the width, of such stainways and of the passageways leading thereto shall not be less than twenty-two inches for every one handred seats, served by such stainway.

334 "TAIRWAY LANDINGS At every point where a stvaight staurway turns directly on itself a landing the full width of both flig its and without steps, shall be provided

All sairways leading to any gallery above the balcony stall be enclosed between walls of masonry

At every point where a stairway turns at an angle, a landng at least the full width of the stairway shall be provided

No starry ay shall ascend to a greater height than eleven teet without a landing, said landing to be level and not less than four feet in length.

to INDRAILS FOA STARWAAS. All enclosed streams and the factor of the desired streams and there are not seen as a beginning random therefore, as a beginning random there moves dutant therefore, as a beginning to the factor the stores, but such bandrails soil so the required on lives parallolms and landings some the length of such plat rate or landings is greater than the salin of the starries, or starries is well wheth they cement.

By-Law 7528

in consection with the heating asstern, the plant shall be unstatlled in a part of the building asparated by a fiverpor of war as walls from the main auditor am and corridors, and in all cases on the action of the plant shall be in establed in a feepend room such that in such that in shall, not be located under the auditorium or corridors.

If there is in connection with the heating plant a high pressure of bother, then such heating plant shall be located in a building it in our such shall be a building in a well such theater opera house or anditurion is located, and ad accent to such theater opera house or and summ had ding, the reom continuing such heating past shall be of heeproof construction.

No coll or radiator shall be placed in any able or passage way used by the public as an exit, where it will form an obstruction.

All supply return or exhaus, pipes shall be properly en-

338 (TRE PRESS) TENS Standpipes shall be provided, with bose and hose attackments on each side of the building, and the member and location of such standpipes sha be determined of the chief of the Ere Department.

The Code of toe Fire Department shall designant the size I had standing-ne used and the size of pipes for spiriller system the similer of axes and thoors not less than four of extite number of seed of now recessary to see provided becamer in which the spiriller systems shall be installed, and the non-bir of land extinguishers necessary and where they shall be located.

At the lose in the blading will be tested at least once a year under the direction of the Caref of the PEP Department, and water shall be run intrough the base at least once a month. Any lose or any ottes for apportation or application with many of found defect we shall be condemned by the Chief of the Fire Department, and the same shall, thereupon be removed and be replaced by efficient apparation.

One or more competent men, approved by the Chies of the bire Department shall be employed by the manager of each theatre unld up in the City to attend each performance or entertainment given in the bin ding, and such persons or persons asia, peririrm his or their dates under the direction of the CLE By-Law of the Fire Department, "step person of persons had an it the 7028 hold fig. iffects ministers self-re the bignoring of each per formance or netterain event and shall see that all fires apparatus in r. proper order and that all exist are indicked, and shall, remains the third hid go mult the addresses has departed from it and shall then make a triving moment in of every part of the bit, should be sufficient to the bit of the control of the

Such person or persons with make a daily report to the chief of one I be Department whose duty it shall be to see that the stage hands and other theatre employees are given proper free drill.

A spirishing system will be installed over the stage under the roof of every unliden, now or areastine resetted or used for theatered or operator argues or for public externationals of the stage of the stage of the stage of the stage of the stand upon the stage of the public model by the Vinneyg Line Department and shall be notabled snayed to the apprecia, of the Cline of the Birt Demantiment.

339 FIRE ALARM SYSTEM In all buildings now or heraster execute or weld for bearing of operate purposes or for soll be externaments of any lard where stage seemey and a partitas are used there shall be installed a fix alarm system connected with the budge in ters of the City 1 re-learn Felgergal (a.g., the ranker and the beautin of the sixes in some building and the manner or three metallation small are determined and approved of by the 6-her of the Fe Department.

340. LIGHTING SYSTEMS Every portion of the building deviced to the use and accountedation of the public and coartest leading to the highway or street, shall be well and properly light and thiring every, performance or entertainment, and the name shall remain lighted intil the entire and once whall never affect the premains and the same shall remain lighted intil the entire and once whall never affect the premains.

Nothing in the foregoing paragraph is intended to trobibit temperariar shutting off the lights in the auditorium during the production of any act or some.

All stairs halfs corridors, assisgeways, lobores and verblaces in any such building shall be lighted by electricity and such electric arbitrary system shall be separate and unde-

ity law perdent from the general system of agiting faction and such system shall be controled from the fover or box office of order and streamed and there shall be a separate system of Lighting for the exist, also controlled from the toper or how.

Yo gas in clustric lights shall be inserted in any woodwork unless protected by firenood materials.

At electric lights and wiring snall he invalled in accord a we with the requirements of the lay Laws of the city of Winnipeg relative therete, and subject to the approval is the City Recentering.

341 FXITS AND RED LIGHTS. In all theatres now or Fereafter ercc ed there shall be over every exit, on the incide the word ENIL' in conspicuous effects not less than six troves in legit and with a distinguishing letter, "A," I." etc., and mer each accured to the mace there shall be placed a red light wasel shall ruman agated not the assistance shall have left the cremmes, and no other ned by I shar be all wen n he auditor an on every programme there shall be printed ir struction to the audience as to the Deation of exits, and which exit a best available from the different sections of the house The areas assurements and starrways of all buildings affected py the provisions of this By Lan, now or Percafter creeted, shall be kept clear of competions and chairs, and shall not be obstructed in any manner and no person or persons offer than emp, wees of the theatre, shall be allowed to stand in or occupy any of the assess passageways or starways of such building during an enterta ament, service exhibition, lecture concert or public performance of any kind

142 MINOR THEATRIN AND MONING PICTURE HAATRIS No bulleng stall be excepted for a moving pertire treatre ences said build ing so findly brick or frequencies construction, and that portion so cocupied shall be apparated from all other parts in vold width of monombast ble materials. It stage is to be used in connection therewish, the stage shall carried to the construction of the stage shall consist it materials, and the opening shall be protected with an absence or other herezoro current.

Pvery moving picture machine now or hereafter installed must be placed in an enclosure or booth made of suitable fireproof material be throughly well and an obe large enough By-Land to the operator reverse to malls freed, or make red, or back 7528 of machine. All oper new most trust both must, a transged to of machine. All oper new most trust readers distincted in the contraction of the contra

, he exits a sies and passageways shall be regulated the same as hereinbefore described

583. P. WHES OF INSEE TOA WITH REPRESENCE.

O 2.14.1/STRE. It all cases upon the provinces of this law relating to hearten, whose ere is dull be notedary. In the secondary of the secondary to the secondary and the secondary consistency of the secondary and the secondary consistency of the secondary in the public of the secondary in the

### CHURCHES

344 F ery church row or hereafter erected shaw have the doors of all main exits from the auditorium and from assemily rions of various kinds, arranged to swing outward.

The seats, in the main auditorium of any such building shall be jaxtened to the floor it the seating capacity is more than three hundred persons and no seat shall save note than six seats inter-crining between it and the adjacent a sle-ahowing twinty-twinthosis tithe seats where personal retringition into six time seats where personal reseats.

Ardes naving seats on both sides shall not be less than three feet in width, and assles having seats on one side only shall not be less than two and one half feet in width By Law 7-211

Main exits shall be provided to a total width equal to twenty two inches for every one hundred seats in the auditarium, allowing in all cases where news are used twentytwo inches to the seat

feet in width.

The main floor of any church bereafter erected sesting more than five handred negate shall not us at a greater height than seven feet above the established grade of the adjoining street No wood work or other inflamma le materia, shall se used

in any of the walls, floor construct in structural partitions or stairways of any church neresfier erected with a sesting capacity of over one thousand persons.

Where the room containing the neating plant of any church

now or hereafter erected a not of frepronf construction the walls and ceiling of such room shall be prefetted as fireproof materials in a manner approved by the Bin diez Inspector.

### PLACES OF PUBLIC ASSEMBLY

Ms. DGORS, HALLWAYS, SEATS FIG. The doors of all public buildings not specially increased in this Avd aw. already erected or hereafter but, shall onen ontward. The hadways stairways seats and aixes sha we so arranged as to facilitate corress in case of her ex-accident and to afford the reculsute accumus dation is ripublic protein in it such case, and all a sies and passageways to such building wiall be kept tree from camped sils, that is, sodas and other obstructions during the time of public assemblage.

346. INTS Every public building hereafter erected and every building pereafter two as a pubic building other than those specially mentioned in this By-Law sha, have all exits and entrances of the full width of the passages in n which they open and the passages and exits soul have an aggregate capacity in width of not use than to only by inches for each he hundred persons that the build rig is intended to accommodate but in r , case shall a r passage or ex t be less than four

347 REVOLVING DOORS. The use of revolving duors for the exits of public anid use and departmental sures is prohivted, unless add t ma doors of sufficient width alongs de of such retaying diors are provided. Such additional goors shall he kept unlocked and shall be arranged so as to oner outward At angue of all such resolving dover shall be so By Lian arranges that by the application of a force slightly were than 7528 as necessary to resolve such door, all the usings of such doors of flood far a seach solve and in a custoward direction of such doors and such sunges sould be so, arranged trut they will resolve could up to a such supplementation of the product of the flatform important and the sea of the supplementation of the flatform integration of the flatform integration of the flatform of the

through side by side

348. FENEMENTS. The following sections, numbered
349 to 359 inclusive, shall apply to tenement houses as pre-

### DEFINITIONS

- 349. A Ad-MENT means a room or state of two or make rooms, occupied or introduced in designed to the occupied as a family domicile.
- 3-0. Y-NRD, means ar oper unoccupied space, on the same at with a tenement rouse, setween the extreme rear line of the house and rear line of the lot.
- 35. (1.1% means an open unecapped space other than a hard in it earse of with a tenement loase. A court not exencing to the street, anne or yard as an inner court. A court earliering to the street, and or yard as an onter court, if such court extends to the street. It is a street court, and if it extends court extends to the street. It is a street court, and if it extends to the server it is court abut mig upon the division line between the lot upon which a tenement house is exercited and the lost adjustment thereto.
- 322 SIANT, means a space smaller than a court, whouly within rebounded on three sides by a tenement house, extending from the ground or any upper floor to the sky, used exclusively to centilate or light water closest apartments, baths rooms or pantners.
- 35.8 . JBLIC HALL, means a hall corridor or passageway not within an apartment.

354 STAIR HALl means and meanes the stars, starlanding and those portions of the public halls through which it

# By-Law is necessary to pass in getting from the several entrances to the 7528 top storey

- 350 CORNER LOT, means a lot situated at the junction of two streets, or of a street and public lane, not less than streem feet in width. Any portion of the width of such lot disants more than fifty feet from such side street or lane shall not be regarded as part of a correct for but attail be subject to the provisions of this Bi-Lan respecting lots other than corner
- 356. NEW TENEMENT HOUSE, means a tenement bouse constructed, converted or altered to such use after the coming into force of this By-Law
- 382 The dimensions and boundaries of each lot must be cearly marked on place, also the measurement of all courts, and is abit, rooms and halls, as well as the purpose for which each room an, the several portions of the building are intended to be used, also the oceation of five escapes.
- 388 REAGOF LOT BUILDING IS TO OCCUPY. No tenement louss, alone or with other huildings, shall occupy more than eighty fix- per certain of this area of a contact lot, or more than a ray by see certain of the area of a some lot, if such corner lot is bounded on three sides systemets or laises, or more ans sevent fix per certain of the area of any other lot, proservation of the second of the second of the contact seems of the second of the second of the contact seems of the second of the beautiful and everted according to this Bi-law shall be deemed to be sunccupied.
- 359 CERTIFIED PLAN OF LOT At the time of applicant shall submit a certain of a tenement house the applicant shall submit a certained plan of the lot showing the dimensions of the same and the post on and dimensions to be occupied by the proposed building, also the position and dimensions of any other building or buildings which may be on the lot.
- 360 TENEMENT HOUSE USED IN PART FOR BUSINESS. When a tenement bouse is used in part for business purposes, the ground floor thereof may cover the entire area of the lot, if the whole of such floor is used for afores or salestroom purposes only, but the provisions of this By-

Law as to the percentages of the lot which may be occupied By Law

shall apply as to all other storeys above the ground floor 361 Provided further, that where a building occupies a corner lot and other ands immediately ad agent to a corner lot the provisions of section 353 of this By Law shal, he satisfied I the per centage left vacant of the area of the whole of such corner lot and adjacent lot, taken together, be equal to the per-

explace of the area required to be left vacant by such section No. 355 362 W.DTH OF LCT Where, in corner lots, the two frintages are of unequa length, the lesser street frontage shall be taken as the width of the lot.

a cet frontage alore and not une frontage shall be considered in determining such Jesser frontage

363 NO EXISTING TO NUMERY HOUSE TO BE EN-I ARGED. No existing tenement bouse shall bereafter be enlarged to be list upon all on the sut inted dig mished or shall any other building be placed on such let so that after such alterat on or add to na building a preport on of the lot upon which it a situated larger than the groundtons oft forth in section 358 nereof is covered with buildings privided that in case a lot tranch at or creek at in shape, hourded on two or more sides lo streets has a litter foot frontage exceeding one-twestieth of the area of such of r some e feet it shall not be recessary to compay with the conditions of the section as to percentage of

304 . IREPROO, ILNEM NTS. Every tenement wave herealter erected exceeding three stores in height above the a rec. grade shall be of fireproof construction, and so tenement have shall be altered so as to exceed such beight without being made fireproof

365 WOODEN TENEMENTS. No worden tenement house shall hereafter be erected nor shall any wooden build mg be hereafter altered or converted to such use, when such buildings exceed two storers in height exclusive of basement nor shall any wooden tenement house wider than thirty feet and deeper than sixty feet, exceeding in area 1,800 square feet. be hereafter erected unless the interior be subdivided by five-

### 96 FRECTION AND REMOVAL OF BUILDINGS FIRE LIMITS 1...

By-Law proof walls. In no case shall any portion of a wall of a wooden 7528 tenement house be and within three feet of the lot one

66. HLIGET O, TEVENIBAT HIGESES. No neremon E-use still hereat erb erected which sha, execument beight ore and one-alf. 1.75 times tre-order for the wedeen street upon which it stands. Such eight shall be the selectation of the street grade to the highest point of the roof beam.

by IRLINITY Do Where there are milkhedd seveed ing for test in height or exceeding in grate the pier continuod the area is the roof the measurements shall be taken to the top of the build each but thus procusion a usu not apply is clearly encountries to exceeding, fifter (fee. ). In performance is the top meet in all cases shall be taken through the centre of the facade of the building.

Firet generating are hepeafter creeked shall have in the role in hepping buildings or freprind seutile or the same may be extred in a proposal material. There shall be starts or a fixed audies eading terreto, and no seattle or back rose door shall have been in a so, lick hit may be fastered on the audies wittens of morable with so his Section or roof opening shall not be less than two feet by three feet.

186. VAGLU VA LANT IN KEAG. At the rear of every tot containing a new tenement losse anless the rear of such cot about 185 and new tenement losse and such ever and such cot about 185 and pubble and, there shall be a yard, epen and moderated from the carts to the say. P. every part of such yard shall be directly accessible from every other part thereof, yard wall be directly accessible from every other part thereof, easies ten feet from the rear, ne of the oft at the nearest point of approach of such buildings to such rear line.

369. It are construction of every new tenement tonue there will be provided and a week an open space, being a part there will be provided and a week and pets space, being a part of said lot goon in the said losse, as but, at least ten squares feet, Lacerd to be used for it is purpose of almost grantage, as when the ware teet shall be so matted as to be of easy accessing the even a public laten or some other public throughfur and stall be open and anobstructed from the earth to the say. Such part of such lot shall be or metally accessible from even other part.

thereof, so as to enable all the occupants of said tenement house By-Law to have free use thereof for the purpose of dumping garbage. 7528

VO AREA OF COURTS. Every court of erry teem therees shall be open and unobstrated at every point preced from the bottom to the sky, excepting where for excupes, or are so of instange, contained and everted in acc exame with this sly-law, project not more than four feet indicated outside the preceding and courts. Where preceding a superior of the preceding a superior of the preceding and the superior are contained in courts the area occupied by store and proches. We ray provide that the contained by store and proches. We ray provide that the contained to the superior that the superior

### 371 AREAS AND WIDTHS OF INNER COURTS

2			7					98	square	fe
3			10					200	square	fee
4			13					338	square	fe
5			16					512	square	fe
6			19					722	square	fee
7			22					968	aquare	fee
8			25					1250	square	fe
9			28					1568	square	fee
10			31					1922	square	fe

372. Lot Line courts shall have areas and min mum widths.

n a . parts not less than one-balf of those specified in the above table respecting inner courts.

373. WIDTH'S OF OUTER COURTS. Outer courts of all tenement houses hereafter erected shall have not less than the following widths in all parts.

Health of Court.

Lesst width

gils of Court

2 storeys 3 feet 6 snohes

3 storeys 3 feet 6 snohes

4 storeys 4 feet

5 storeys 6 feet

6 storeys 8 feet

7 storeys 10 feet

8 storeys 12 feet

# 7528 If the outer or lot line court has windows on opposite sides of the same, the minimum widths as given in the above table for outer courts, shall be doubled

374 DIMENS,ONS OF SHAF', So Statts in all tenement boxses hereafter erected shall be of the inflowing

Z storeys		28	Ares square	feet	Least width						
3 storeys	•		square					6	suches		
4 storeys		40	square	feet		- 5	feet				
5 storeys .		48	square	feet		- 6	feet				
6 storeys		84	square	feet		7	feet				
7 storeys		96	square	reet		8	feet				

8 storevs . . 126 square feet

9 feet

Vor sixt used or strenge, to be me, as light or resulted atternors, exil have carried and memon ordition in all pure not less take the areas and sixthes as set forth in the above consent at the rope to the area and sixthes as set forth in the above covered at the rop to the aroll or six light, and every not a stiff care, to envised at the bottom with or make at other open the aroll of sixthesis and the rope of the aroll of the role of the aroll of the arol

JST SILVEYS, COURTS, MRRAS AND YARDS. In creen tenement, ose ensure received, the oution of a lividitis. Four trans and conference of the control of a lividitis of each attention and the focused to the basement for agilt or extract in the age ones must be synchrone only the Lar Tere? If we pay occupied by intended to be occupied. In Lar Tere is a court, areas and yards should be properly graded and all a red that court, areas and yards should be properly graded and all a red that court, areas and yards should be properly graded and all a red that court, areas and yards should be properly graded and all a red that the court of the cour

376. WALLS ON COURTS TO BE LIGHT IN COLOR, I was a sill part course, more courts and shafts, unless of a lagst ce ker brick or stree shall be thoroughly whitewashed by the soner, whall be partied a light clore by it in and shall be a maintained. Such whitewash it paint shall be richead wherever recessors as may be required a job to Health Officer.

7./ REMOVING DIRIY WALL PAPER No wall By Law paper shall be placed upon any wall or ceiling of any tenement coats on eas all wall paper shall risk be removed therefrom, and the said wall or ceiling thoroughly cleaned

VB. A ELD BL "PSYLOPED IN BECK WATER WAS EXECUTED IN BECK WATER WAS EXECUTED IN SECRET AND A SEC

USC SIZE AND IT IGET OF BG. MS is every terement. Free hereafter executed or to using all end to such use all norms excepting state closest and all the norm empartments whall be of the following in names in sees.

on a might place there sharl be at least one riom
con a might place than one buildred and trenty (120)
square feet. (4 or area and cress other room) shall contain
a least seventy (70) square feet of floor area.

Tyery rapidhat have a minimum begint of not less that it me. If feet from the finished floor to the finished college, except an attic room, which need be nine (9) feet light in but one half of its area.

The coll go of all basement apartments shall have a minimum leight of at least four and one-half feet above the same of the sizet or ground outside of or ad oning the same.

Hereafter we room in the basement of any tenement house shall be occupied for living purposes without a written period from the Ikalih Officer and no room in the basement of any tenement house, which is not now in use as a living room, the beconverted to such use unless all the conditions of this Br-Law are combined with

380 WINDOWS. In every tenement nouse hereafter creeted or building altered to such use, every room shall have

By-Law at least one window opening directly upon a street, yard or court, except bath rooms and water closet compartments, which shall have windows opening directly upon a yard, court, street

or shaft
Where an approved mechanical system of ventilation or a
constant or adjaced draughty providing and any angular

constant or induced draught is installed and approved by the Health Officer the provisions it will all shall simply committed All windows shall be so located as to properly light all por-

tions of such rooms
to renement house shall without the approval of the

Building Inspector, be altered so that any room or public hall or stars shall have its Light or ventilation distinished in any way

381 AREA HEARTH ELL (AF WINDOWS In every tenemer house trendre created or banding altern, it work test the total avudes area in each rose! except water closer responsible and outly once comparents shall, as a locat at least my sold on work to proportions for a creatal least my sold on with the left least view over first as works also better the force, and the upper had of a stell by made so as to open tre fail with. No seen rendow shall be one than terver square feet in mest between the tople beards.

362 \times \tin \times \times \times \times \times \times \times \times \times

J83. STORM SANIES. All storm tashes or double windows shall have a strong frame to arranged as to open easily and leaving a space when open of at cast nightly inches square or the whole may be arranged as to swing on buges.

384. PUBLIC HALL TO HAVE WINDOWS. In every tenement house hereafter erected, or building a-tered to such use in transged or intended to a excepted by more than in a By Law families on any floor or whose except to observa and beginned in more in regist every pulse full shall have at least one and/or speaning firsts in a time see a soul of court. Sach would shall can take no, error of the ball, in this die plake or the shall can take no, error of the ball, in this die plake or the soul or a registeries to have one shall full refere vall be at feat or in the speaning directly apon a storet yard or or at a cut it many feet in length or features thereof of und-

The original pin two preserbing or window never testing contributions shall not specify the principal of the period of the entries while the principal of the entries while the principal of the entries while the principal of the

at next terement have been determined by the water the public and we are proceeded with a window a open agdirectly to the outer put as a revealed to provide the shall be a star wall not less than taking notes who between the rate, a extending from the entrance flow to the risk and all doors canning from succi, and allow dust be provided in the rate of the star of the star of the risk than fee square test for each door, and also with proof transmiss of transferred the star of the st

In every tenement house hereafter erected, or altered to he we reat seast if the windows, provided to he it each public stain hall or part thereor shall be at least two feet excinctes wide aid fix, feet high, measured between the stop heads \$35 SEVILIGHES. In every tenement house there shall

be in the roof directly over each star stall a renthlaring skyagent provided with indige ventualities, as a minimal of pering of forty square inches, or such skelpful shall be provided with fixed it in vallet function. The glazzed wool of such skylpful shall ret be less toan twenty square feet in area. If nevery tennement beauth exercise the content of the star is and public. By Law hals are not provided with windows on each floor opening
7528 directly to the outer air the skylight shall be provided with
both ridge ventilators and fixed or movable sashes.

#### .....

80. UMBH R. MND WIDTH OF "STARS" Rever terment house breaster screeds, or building conserted min such use, shall asse as level one fight or star a extending from such use, shall asse as level one fight or star a extending from hall bettern such also the attentive feet side in the coar Feet reteries those streather reveale, or as a daig converted or such use custom gra from rare of two officeasted square feet a facet using part feet protect asset the extension story shall be the start of the

00/ 01/14

n) The cit of the stringers in all tenement houses shall not exceed seven and one-half inches tread. There shall be not light of stars of more than fifteen or less than three steps between landings.

a) LANDINGS OT STURE. Every landing said no at least fair for said, View sayagits state; reserved devely on themselves a landing of the fall, within 40 both the fall of th

(c) MEASUREMENT FOR WIDTH OF STAIRS. The width of all stairs shall be measured in the clear between the hand rails. No winding or circular stairs shall be permitted.

388. STAIR HALLS. In every tenement house hereafter erected or handing converted to such use which does not exceed two stories and basement in height and which are not

103 By-Law 7528

ecopied or intended to the ecotopied by more than two families and your floor, the star have and public nails may be exceed with veoder stud journation, provided that usely part to the extended of the exceeding converse to such use, which does not completely exceeding the exceeding

300 FLOORS. When wood flooring is used in a ferport interests homes the space remodativy under state wood of average and between the wood nating strips shall be filled with the state of the terres sear removal analysis and the state of the state of the looping of Distillators. Every havement of a tenement house shall have a bod of ement concerts not less than from uncleas in trackness, spread over its entire surface. Wood surfacing and trackness, spread over its entire surface. Wood surfacing and temperate listones often than response houses.

300 CONSTRUCTION OF PARTICIONS IN WOODEN TYPINFERT. In all wooden terrement houses becaffer exceed all put he rail, art moses a hreat directly need and will run through the wooden flow beams and rest on the plates. If he part is in below and shall set the studding filled in a full statem the grights to the digit if the floor beams with anonyone uncombinatible materials.

39. WALER CLOSET ACCOMMODATION In every town ment the use accreate rescrete or building converted to such use, there shall be a water closet and bath in a separate comparament within each apartiment, provided that where three are apartiments consisting if not more than two rooms there may be a common water closet and bath on each floor for every three rooms on such floor.

Every water closet and bath hereafter placed in any tenement house shall or placed in a compartment completely separated from every other water closet and bath, such comBy-Law partment shall not be less than two feet and four inches wide 7528 and shall be enclosed with plaster partitions which shall extend to the ceiling.

to be ending.

In termenon Force- hereafter erected, or buildings converted to stab use size compartment shall have a word as
opening directly either kneep, each court or abut. Even such
stop breaks, and the row entropy of the directive as
stop breaks, and the row entropy with the directive as
stop breaks, and the row entropy have an activated by a
skinght over it, or a located at the bettine of a shall or courel backs, size and is given and weighter directly as skipping over
it at the bottom of such court or other, no sendered who, is
necessary, pro-sledd that the row of a size shalping course
to oper readily.

Nothing in this section with regard to separation of water closels compartments from each other shall apply to a general tooler room containing several water closels, leterater placed in a tenement house provided that such water closels are supplementary to the water closel accommodation as required by it's Bs Law for the user of the tenants of the said tenement house.

392. tPRIVACY In every apartment of three or more rooms in a tenement house heriafter erected access to every aving room and bed room and to at least one water closet compartment soall so had without passing through any bed rooms.

300. MNNs. In ever new transment house there statl be provided a separate and in each apparatural. In all others there provided a separate and in each apparatural to all others the provided as separate and the second of the se

394. Every water clust compartment in a tenement house shall be provided with proper means of lighting the same at might

395. In all water conset compartments used by one or more. By Taw tensans or finally, the floor of such apartment shall be more 7528. waterproof with aughfull, the stone or some other waterproof material and such asterproofing will be resent to at least actions nove to the floor so that the set floor can be watered or floatest out without lealing. No dry trays shall be permitted by general societ rooms the partitions actived water cones are over deviative shall not sected to orbina as noticed on the

306 WHITEWAS, IING OF CELLIARS. The owher of every tenenticul house shall cause the cellar walls and ceausige thereat in be thoroughly him waved or painted a light color, and to be an narrained. Such whitewash or paint shall service of whether received whether received whether received is shall be a required by the Health Observation.

30. HANDMLNI ENGRANCE In every tenement house hereafter erected or bailding converted to such use there shall be an entrance to the basement, or other lowest story, from the outside of the said bailding, such entrance shall be properly protected, an an approved manner.

1988 DRAINAGE life or the walk of any house are carred up above the grade level, the basement shall be connected with the street search through drain tiles and catch casins. Weiping drains or porous the pipe covered with at least one nices of broken orion, shall be lad around the foundations, it such drains be laid outside they shall be connected through the walls with the masside drain tiles.

Should there be no sewer on the street, or if the basement is shown the sewer, proper provision shall be made to prevent water iron secural-ating in the basement in sects a way as to be likely to an airc the foundations or to render the occupancy of the bunding unsafe or insantary.

399 FIRE ESCAPPS Fivery teament bonse exceeding two stortys in height hereafter creeted, and every building exceeding two stortys in height hereafter creeted, and every building exceeding two stortys in height nor in sea at tenement by two which is not provided with proper and sufficient means of egress in the event of five, and any building exceeding two stortys in height not now used, or arranged to be used as a tremment house shall be provided with one or more fire escapes, as provided by this By Law.

By-Law 7528

Earl separate apartment in a tenciment bosine shall have of next across worked passage through any other apartment, to at least one five ciecus, solicia sinch apartment awall have direct as the same of the circumstance of the control of the contr

Firey court in which there shall be a fire escape shall be a fire escape shall be a district and unshisterated access slong the surface of the ground to a street or care, or yard opening into a street or lane, without entering into a passage through or one any bit dirg unless through a fireproof passage at cost four feet wide on the court or ground level.

400 °CHUGIS COLLIGES AND MONEITALS. Every stokes, Geigen, hospital, pleace of public resort or entertrument: are not tutte for the care of patients. Investic restrict, exceeding two stores and bestement in lengths, shall be of the care of the care of patients. Investic restrict, to exceed such regide wit stock first being made freproof, and to exceed such regide wit stock first being made freproof, and to be considered to the control of public resort town in an an a second college, hospital, place of public resort converted to such we without being first made freproof be converted to such we without being first made freproof.

401 HOUSE MOVING It slal, be unawfal for any person or persons or corporation to move any building buildings or structure or part or parts of a building or structure which do not comply with the requirements of the BV-laws with respect to buildings creted within the Exe Lumis heresanders set forth, from any part of the City outside of the said land, or any extra the same not shall it be lawfall for

the Building Inspector to grant a permit therefor unless such By-Law building or structure shall conform with such requirements.

No person, except a Leensed house mover, shall move any building or structure on or acress any street within the courts of the City and every such house mover shall annually before engaging in such accupate a obtain a beense from the License Inspector of the City, and no such beerse shall be man ed untithe person applying therefor shall have given a bond in the sure of \$500, with good and sufficient surelies, to in approved by the City Engineer conditions among other things that the said party will pay any and all damages which may bappen to any tree payement, street or s dewalk or to any te egraph telephone or other electric were or puls whether the said in jury he inflicted by the said carty or his agents, employees or workmen, and conditional also that the said parts will indeminfs and keep harm ess the City of Winnipeg against all Tabel es judgments costs and ex enses which may in any visc arise against the said tity in a resequence of the grant no ary such armit r beense and will ma, thirties strictly

comply with the conditions of his permit. When any bornsed house mover deares to move a building

or structure from one part of the vity to another along or across any street or highway of the City an application shall se made for a permit therefor to the City Engineer. Such non-cattor shall elected the building or structure to be moved and shall also indicate the route to be taken If the place to which it is intended to move such building

e structure is within the Pire I mits within which such class of building it structure may be creeted a permit may be granted for removal. Before such permit is granted however t sha he the daty of the City Engineer to ascertair the character I the building and for the purpose of determining whether such build no complex with the requirements of this by Law respect no the class of handing which may be erected within the I re I must of the City he shall obtain from the

Building Inspector a report on the building or structure in tended to be moved. It shall be the duty or the Building Inspector to furnish such report as soon as possible after being requested so to do The Engineer shall ascertain whether any electric street

railway power, telegraph or telephone company's wires, or the 100

By-Lay

By-Law were of the City may be affected by the removal of such 7528 buildings, and if it appears that they may be so affected be shall direct note of the application for such removal to eighten to such interested to allowed for such removal to eighten to such interested.

company or companies and to the City Flecturian.

In all such cases it shall be the duty of the person obtain-

ing such acense, before commencing to move any such building it structure to notify the UVE Extrican and the company aforesaid of the time when be proposes to immerce such removal as that the City or company as the case may be may have in mecasiary men on hand to protect after when the

their wires.

The City Engineer shall make an estimate of the amount necessary to recomp the (its or the company or comparies whose wires may be affected by such romiya, for the cost of repair to such wires, and for the wages of the men necessary to accompany said huilding during its removal to protect such wires and a such estimate shall be included such sum as the City Engineer thinks necessary to repair markes done to the City's payenests and also to any wires or overhead construct in belianging to the city itself. It all cases the applicants stall pay not less than the sum of five dollars betore obtaining their termit and any sun additional treret, which the city Engineer shall determine to necessary for the introuses also to ment med and such some chall be held and paid a the city t in imburse the said commany and the bits itself for any damage to their rats were caused by such removal and for any expense incurred in an fective man were are not damage during such remainal and any surplus at er paying said amounts also be returned by the city to the person who hald the same.

darring such reneval and any surplus at er paying and amounts as as the returned by the city to the person who had the same. No bin ding or other structure small or move, any macross any street child a permit of the city is inguier has been resured and single renest side. In the cash deposit

ascertained as aforeard, has been made and the other on dilicus precedent provided for a this IIv Law complier, with A horse, movee or other pieson wish diese any from weadon or after stake or spike or anchor or when instrument into or through the pavenent of any street.

No house more shall leave any building a the bue of wires, amps or causes but such moving shall be continuous early day and the building is at its final destination.

No he bling shall be left standing so as to prevent access. By-Law to any five alarm 10x or to interfere with any street lamp or 7528 so as it like out the passage of any five origine host reel arotter five accompanies.

No noise mover shall break out, remove or interfere with any wire or wires cables or appliances, the property of any come any in the first operating any system of relegraph, telephiene electric light electric street railway or power.

All recessors remeving or entiring of worse moveminated by the dark between m in or an is, anding stable in dark by the dark anchor red working at the control of such rows, and it shall anchor red working at the control of such rows, and it shall be a state of the control of

## BILL BOARDS

402 at stall be unlawful or any person to erec, any bit, bard harding or advertising sign or increase the height of any texts of rint of any building alliancy erected for the purpose of placing advertising or post by of bit's thereon to a neight gleater than our feet where said lence or building fronts or abuts on the street.

LILL HOARDS, ADVERTISING SIGNS, ETC. OF A ORE-TER HYGIET HANN SIX EEE Every bil board, hoarding or advertising sign or bulletin board of a greater height than six feet shab, be set acis, ou the lost or building upon which it is located a distance equal to the vertica, neight of such board, hoarding or sign.

TO BE THREE FEET FROM GROUND UNLESS AT-TOTHD FO NIDE OF BUILDING Every sold board, Foardurg, builten b varo, and vge shall be set up so that the botten thereof shall be not less than three feet above the ground miless the same as immediately attached to the wall of a building.

ALL BILL BOARDS, ETC. TO COMPLY WITH THE PROVISION OF TWO PRECEDING SECTIONS Every By-Law bil, board, bulletin board, hoarding or advertising sign hereto-7-28 fore erected which does not comp.y with the foregoing provisions bereof shall be altered or re-creeted so as to comply with such provisions, and in default of the same being aftered or re-erected as aforesaid, the same shall be immediately torn down or removed. In the event of any person firm or corporation refusing or neglecting to remove or tear down any such bill ovard, salletin board, hoarding or advertising sign owned by him or them which does not compay with the foregoing provisions hereof, the City may remove the same at the expense of such person firm or corporation, and the City way thereupon recover the cost of such remova from such person from or corporation, in addition to any other penalty to which such person, firm or corporation may be Lable for breach I the provisions hereof.

403 INSPECTION OF STANDS FOR ORSERVATION hyperon including to creet any great stand or behevation stand for the use of the public, either of a temporary or permanent nature, shall before recting the same, solute, the pantitude of the control of the public, either of a temporary or permanent nature, shall before recting the same, solute, the pantitude of the public of the pub

404. ERECTION OF ARCHES ON PUBLIC STREETS R SQUARES. All arcaes or smalar structures creeted on any public street or square must be inspected by the Building Inspector before being used, and his certificate extained.

#### CHIMNEY

403. THICKNESS OF WALLS AND HEIGHT ABOVE. ROOP. No brick chimmer shall be built with walls are stran one-hall brick, or four and one-hall inches thick, nor shall the top of any chimmer be cower than four feet above for top of the roof at the point of contact if a flat roof, or at least two feet above the rulgs of a pitched root, and in no case shall a smoke flue be less than mee maches square many.

406 CIMBERS NOT TO REST ON CHIMNEY WALLS. No joists or timbers of any sind are to rest upon the walls surrounding any climney, and all such joists or tim

- face of the same. Provined that corbelled fire steps shall be used between the channey and joists as in the case of walls.

  407 CHIMNPYS TO BE BONDED TO WALLS. All channeys constructed in brice halls saal be ponded to the walls every liftly earney from the buttom to the top, and a librid flower hall be built of hard burned brick and shall have
- strick points or he parged on the inside, unless lined with irron or title

  408. J.STANGE OF TUF FROM THE CENTRE LIME OF ARRY WALES. All dies in party was must be locate, at least four am, one all other or one half break from

the centre line of said walls

- 409 W.IFN WALLS OF BLOWS ARE TO BE IN-CREASED IN HILICRNYSS. It the are of a flue events one hundred and aventy six square anches or if the height of the chimney is over forty feet from the first floor joints to loop of the stace, the walls surrounding the flue must be received it at fleats must calve or one brote in thickness.
- 410 CHIMMLY NOT TO BE SUPPORTED ON WOODEN BRACKEE'S No chunney in any briek building shall be built in on any floor or beams of wood, but chinaneys in wooden buildings, shi on are not suit from the ground, may be supported upon session makes. If the brick work is not over twelve feet in height
- 4.1 CORMADJANC GUT PAR CHIMNEYS In no case and a cumiley be corbedee out more than non-inches from new wall, and in every case the corosion systematic control of at least five courses of arts provided, sowerer that no corbeiling more than four ano-one and not inches from the account of the state of the wall stall be allowed in a one-brick or nine-inch was.
- 442 AREAS OF CHIMNEYS AND HOW TO BE CONSTRUCTED. All chomers I avong a greater flue area than if tree atundree, and i wents door square inches, out not more than seeven hundred and taxenty nine square, niches, shan, be lined on the imade with five brick, and in fire day, whose lining shall start at least, we feet selow the smore inlet and extend at

7528

By-Law least twelve teet above said smoke niet. All flues baving an area of more than seven hundred and twenty-nine square means, but not more than tweive hundred and mnetwork square inches shall be bised as aforesaid a height of twenty feet above the smoke inlet. All flues having a greater area than twence hundred and ninety six square inches shall be lined as at resaid, a height of at least thirty feet above the smoke inlet

> 413 WHEN ILLES SHALL HAVE HOLLOW WALLS Smake flacs of a overter area than seven hundred and twon a nine square inches shall have bollow walls spaced four inches apart. The anchwork of such walls taken together and no nd air the fire-breek limite, shall be seventeen inches in totekness.

At a legg of a lity feet above the stroke must the thick ness of such surrounding brick wails may be reduced to thirteen inches but a al, cases the surrounding wall of chimneys of any size whatever shall be so proportioned that the bricky wk in the same will not be and exted to a greater stress than the maximum safe stress for brickwork, provided for in this By-Law

414 HT.GII OF FILES Af chimneys raving a greater the area than one or id ed and conery say so have increasinall exrou, with the auras of sixes feet there a up to sign a further height as may be necessary to afford reasonable protection from snoke and gases to buildings within the above-mentioned radina

415. ISOLATED CHIMNEYS. All solated chimneys shall have hollow walls, and shall be so designed and constructed that the stress upon any part thereof due from the weight of the stack itself and from wind pressure, shall never exceed the limits provided in this By Law as the maximum safe stress for brickwork. Every such chimney shall be provided with an iron ladder citier on the inside or outside extending from top to bottom of such chimney

416 FOUNDATIONS OF CHIMNEYS. The foundations of every chimney, whether inside or outside of a building and whether such chimney is connected with such building or reolated, this, he die great and half in conformity with the By-Laws pero some of the Ny Law reactive to Gionnalation of the Higgs, 7288. Leter cummare shall be provided write a cleaving-out deer at the best mi, all thinks used in the construction of chimical lawing at area of more than one another and merely sas square neither, e.e., eith the brink in may attend referred to, shas, be the less insorted branch levels and shall be fail in connection that the less insorted branch levels and shall be fail in connection more constructions.

417. Every metalic chimney or smoke pipe used in any united up in such a way as to pass strough the floors or roof of the same stall te cue, sted, or brek or tile walls, with an arrange space it at least three receives between the enclosing walls and the smoke pipe from the bottom to top. An outside metallic stope states associated with an overell and overell and

418 SMfrich PLJ, O RE SURROUNDED WITH TAXOMECTHELL MA "Nels A smoke p. as of not more than seven inches in diameter passing through wood or pastered sind part trons or a wider floors, shall be surrounded by a skit of birth hollow life, it was terra cotta or other mounbustible material measuring at least four inches or thickness all around such smoke pipe.

In case sizes, suit amos upper are over sover me ean manner they all the secrounded with under noncommentate distances they all the secrounded with under noncommentate existing cight where in thickness. Sindle piper laking a diameter ranging from eight to traver when inclusive shall be kept at least take or index dataset from any wondered; and make the control with the control

Smoke pages of greater diameter than (welve inches and needs area than sex equare feet must be kept at least twenty-or necks away from any woodwork and such woodwork must we protected as specified in the preceding pageragraph for supergraph for such section of the proceding pageragraph for such smoke page to a distance of four feet on each side of such smoke page.

Wherever smoke pipes of a larger area than six square feet are used they shall be kept at least three feet distant from

# 114 ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

- By-Law any woodwork, and such woodwork, for at least a distance of 7528 six feet on either side of said smoke pipe, shall be protected as before specified for smaller pipes.
  - 449. CUPOLAS OF FOUNDRIES. Cupolas of foundries shall extend at east ten teet above the Ingless to mot tee ingless from the ingress of saxty feet of such cupolas, and shall be covered on top with a heavy worn enting. No woodwork shall be placed within a radius of two feet of such cupola.
    - 420. CHIMNEY IN LOFTS. No chamaey shall commence in any loft unless there are fixed stairs leading to the same, easy of access at all times, and no stove pipe shall pass through more than two ceilings before entering any chimney.
    - 421. HEARTHS AND PEREPLACYS. The heartm of all repeases, an budges shall be supported an inviewer arches of brack, conserie or term ortiz, such as rathes to be used less thank, and a having the evens not the arch not less than foot-auchies tuck, and a having the evens not the arch not less than foot-acceptance to the second of the second of the second of the second of the second on two hars placed between such femple second to the wood floor pasts and or marces, the top of such bars to be ret. set stem as it remembers, the top of such bars to be ret. set stem as it remembers, the top of such bars to be ret. set stem as we rether the rest of the rest of the rest of the rether of the rest of the rest of the rest of the rether of the rest of the rest of the rether of the rether of the rest of the rether of
    - 422 DIMENSIONS OF HEARTHS, TRIMMER ARCHES ETC. All nearths and trimmer arches or bring foundations for hearths or freplaces shall extend for a d stance of twelve inches on each side of the freplace opening, and shall be at least eighteen inches wide a front of the chimney break
    - 423 THICKNI'S-O P JAMSS AND BACKS OF FIRE PLACES. The brickware of the jamos and backe of all fire-p area, whether intended to b-m coal wood or gas as fast shall be at least name inches thek. The brickwork over the fireplace opening shall be arched, or may be supported on a camber iron bar. Fireplace openings that are not i.sed, but which have smake pipes extering into flees of same above the fireplace openings that are not i.sed, but which have smake pipes extering into flees of same above the fireplace openings that are so its same above the fireplace.

threat of the fireplace opening, and such damper shall be By-Law securely fixed. 7528

- 424. "LUES FROM FIREPLACES IN WHICH GAS ONLY IS UN-ID. The flow from a fiveless an which gas is only used as fine, may be of cast or galvanized rone of fire clay post, not less than four, andres internal disanster, and such page control of the co
  - 425 USP OF GAS STOVES. All gas atures, whether need for cooking or heating, shall be provided with metal hoods or pape for carrying off the products of combustion, and the ideas of cooking and the ventilating pape of such gas fixtures assill oc concetted either into ordinary chimneys or into flaes as above described.

### BOILERS, ENGING AND FURNACES

- 40. HIGH PRESSURF BOLLARS. Any person when it over or use a building or primary wherein it is intended to exist or use a high pressure, boxer, steam engine or grassmose or as sengone, for any persone vehatories, shall make application in writing through the Impertor of Buildings to the Connect, for primission to do as. Nach application shall state the purpose for which as also holder or engine in attended to be used, and such about the propers for which are the primary of the state of the primary of the state and think, in additions, state the amount of power which is intended to be used on said premises.
- No person shall, w thout leave of the Council, expressed by resolution, set up or work any such boiler, steam, gas or gasoline engine within the City
- 427 PORTABLE ENGINES Portable engines, used for building purposes or otherwise, shall use coke for fuel, and the work shall be done under the supervision and to the satisfaction of the Inspector of Buildings. If it is necessary to place an engine on the street or law for building purposes, a permit must be first obtained from the Cuty Council.

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By-Law 7528

428. HEATING APPARAIUS TO BE ENCLOSED Any heating apparatus, except in private dwellings, which may be recaused for heating or other purposes shall be enclosed by walls of fireuroof materia, on all a des. All doorways in said

walls shall be made fireproof and also the floor and ceiling of

429 WOODWORK, ETC. A BUILER HOUSES.

The wondwork I all outer houses and house rooms, where steam pressure is used for newer narrows, shal, he sent at least six feet from the -oiler and four tect from the breaching or smoke conductive, and one toot from the dome of the soler, inless such wouldwork is properly on tected with incombustible material and then there saal be at least two leet space between the builer or smore pure and such protection. Not more shall be and with not contest space from the booler or single populand the protection \ timber shall be laid within two lees of the ande of any even power tarnace or within nine inches of the opening of any channey or within nine inches of the inside of any flue

430 PROTECTION OF FECURE ARGUNE WILL LRS, and Whenever borlers, or other structures in which fires are maintained, are set inside of a smild no or in a conm with wooden floor or ceiling construction, the floor if the same shall be protected by a covering of brick or concrete not less than tour inches thick set in mortar apon a continuous sheet metal pearing plate not less than three systematics of an inch thick, al. the courts of which are to be securely reveted, and the edges of which are to be turned up four inches all round

This toundation of sheet metal and brack or concrete shall extend under the whole of the firebox and subpit of the boiler or other structure, and to a distance of not less than my feet in

front and at least three feet on the sides of same. 431 SPACE RELIVELY TOP OF BOILER AND

WOOD CLILING The spaces between the tops of such boilers or furnaces and any wood ceibng construction shall in no case he less than three feet and the underside of such wood ceding construction shall in all cases, he protected either by two consecutive continues of puncturing or metallic lath or wire net ting, which shall be kent at least two inches distant from each other and which metallic lath or wire netting shall be applied by means of metal furring strips, or this protection of the wood-By-Law work shall be made by a covering of at least two inches of 7528 portos term colts plastered on the underside, or sy a covering of hollon is, even two are spaces at least see half ince near between the second and the under surface thereof, which under the ska shall are reserved and a reasy cost of passer.

432 CO BAN TO RIBAT MY STOVEN, TERNACING WAS STANDARD ALL, SO COME OF OREAST ASSESSMENT OF THE ACCOUNT OF THE A

433. I. E. F. LOZ DESTRIBUTION OF HIGH MAN PARTIES AND THE PROBLEM OF THE PROBLEM

434. OPENINGS IN PLOORS FOR HOT AIR HISTORY END PROPERTY AND A TOP A TOP AND A TOP A TOP AND A TOP A TOP

43 MATRIKIAL AND CONSTRUCTION OF DUCTS. LIPS, VLD, REGISTIPES, Where the 1st are conveyed through 1 pies to texted in an ordinary list an furnacio, or by any 1-her metrical is sed for the decits pipes and ring user boxes. The material is sed for the decit pipes and ring user boxes to the control of the control of the control of the control or a season pipes. Any other sheet metal may be used for the pipes and boxes.

- Rv-I aw 7528
  - 436 INSPECTION OF BOILER OR PURNACE IN a - case shal, any boiler or furnace be used until the same shall have been inspected and approved by the Building Inspector
    - 437 INFLAMALABLE, S. IISTANCES No person shall keep any larger last to than the barrels of rock oil, coal oil carnon oil, water ill r any other such oil, or one barrel of benefit if gas-some at any one time in any house shop or building or in any other place whatsoever within the amits of the sawl ( ity of W no peg, without the permission of the City Coursel of the City of Winnings but nothing in this section contained shall apply or by deemed to apply to the keeping of pasoline in any public garage of private garage
    - 438. Vs explosive or inflammable compared or combustib c maternal sha, he stored or placed under any stairway d any suilding or use, in such manner as to costruct or render erross dangerous and bazardous in case of fire
    - 439 All amidings in the said City of Warmings, used or to be used for the purpose at storing rock oil coal oil, water ed, gasoline, calcium, carbide or other such ous or combustible substances, shall be isolated or detached at wast two hundred feet in m any other suilding and other such buildings are used for the same a burning fluids, crude all mapths benzol. benz ne or other minutar dancerons materials all such buildings shall or constructed firentpol and so as to secure a thorough ventilate a a cree flat a lit may but the provisions of this secthen shall not some to public garages or private garages
    - 440. In a case shall any person keep any larger quantity of ruck an end or water oil carbon oil or other such oil, or gased us r benz is than twerts-five parrels of a l kinds within one only of the banks of the Red River or the Assurboine River in the said City, but nothing in this section contained shall apply to or we deemed to apply to the keeping of gasoline in any pubac or private garage
    - 44. No fire shall be agrited or used a thin the said last mentioned storage by ldings either for heat, light or for any other purpose waatever, at nothing in this section contained shall apply to any private or public garage.
      - 442 Pyery person desiring to keep or store in the manner provided by sections 437 to 44, measure of this By Law, any of

the finds metabored in the soul sections 42 to 441 measures. By-Lase and every perior decisions to keep or store for the purpose of 7528 and very the found metabored in the said sections shall make a sarrier application to the Stand ag Committee of Fire. Water, Light and Power of the said City for permission to to do, and state, in each application the store, mose shop, building or state, in a side highestic the store, more shaped or of the state, in each application the store, most shaped or of them and it shall be the dairy of the Charl of the Fire Department of and City, upon any application being made, or at any other time of regard as to do to examine the premises and eport to the said Committee three and deposit the said Committee three and deposit the said Committee three and application from the premises and eport to the acid Committee three and ground to refer the propriet of said. Committee the said committee three in the premise and application to the propriet of said.

443. GUN-OWDER No person shall have or keep any quarth of ignips user, dynamic or any other combustible substance or material exceeding twenty ive pounds in any one pare except in suce prouder magazines or place as may be approved of by the Council, after having received a report from textual properties and the Chef of the Pire Department.

she CVLCIUM CVRIDDE. In all bindings need or to be used it is the purpose of keeping or severig calcium carbide in quantities of ax nondrea pounds or more, the same must be stored above ground (an approved metal pockages), a buildingspool to be used exclusively for such purposes, and such buildings to the used exclusively for such purposes, and such buildings shall be related and detacked at least lifty feet from any other buildings and such entitled to a strict be dry, waterproof and well entitled.

45 MOKE HOUSES A., smoke houses within the

City shall en assurated throughout with indombastable material with sentians rist or near the top and guards not less than loser feet above the fire und, sufficient to prevent the meass from fining into the far. If any smoke house shall open into doors or shallow, such opening shall be privided by iron doors or shalters intoperly and thoroughts, continuously.

46. BAY WILDOWS AND OTHER PROJECTIONS. No store or shap window or bay or oriel window or other projection except cornices over store frosts, and main cornices and belt courses on any building shall project over any street line or other public property.

ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

120 By-Law 7528

447 TANNERIES AND MANUTACTORES No permitted residuely, see a cert you on continue within the city work of the certain seed of the certain seed of the residuely of takens or any manuscript of various, ferrorise are cell us, referrey or reference or my statery which, from its rature or toe materials used it even shall be degreeous as reason or toe materials used it even shall be degreeous as transferrorise or to the cell of the control of the cell and even the flowing feneract as certificate of companing even provision of even By Law of the cut of Winnings and even you want to the cell of the case shall not be with the cell of the c

# GASOLINE AND GARAGES 448 Not mure than five gallons of gasoline shall be sent

- or stored in any public it private garage of an any other building of save kind whatsone or in the c. to off Wompeg muless the same is kept or stored in good and effected minimalsakable metal containers which shall be kept tightly closed at all times except when actually being filled or emptted.
  - 449 In cases where the capacity of any such container exceeds ffty gallons, such container size i comply with the following requirements.
- 400. Every soil container shall be made of either black open hearth sited, in least non-quarter of an inch hick, in which case it shall be properly riverted and casilled or shall be made of galvair zet sites, of at least twelve gauge, in winch case it shall be properly inveited and souders. Every such container shall be a fixed tank and shall be efficiently coated on the outside with fair or other rust-resisting material.
- 451. Every such container shall have one vent pipe opening one fiver tipe opening, and one suction pipe opening therem, such openings to be at the top threeof, but shall have no other openings or pipe connections therein
- 432 In every such filler pape opening shall be inserted an efficient finer pape which shall mill me towards the tank, and shall be made of galvanzed from paping of at least two miches diameter, and provided with an efficient brass were screen of at least thirty mesh and shall completely fill the opening, and

shall ever the task at a to be thereal and extent to within one \$\frac{1}{295}\$-\$\text{term}\$ and extent to within one \$\frac{1}{295}\$-\$\text{term}\$ and soldiered to it tasks at it point of entry therein, and shall write a loss server up to be help properly before where the state of the sta

ASI In erx vertipper, simily circle dall the reserved an effective entity per visits shall be made of a various for an entity and each completely an expert of a beat one with district, and shall completely applied to the completely expertite the shall be provided as a respect of constitution of the transit that the second and shall be districted to a common group and from these which the carried to a length of all least they were an effect of the constitution of the shall be corrected to a length of all least countries. The constitution of the shall be corrected upon protector with per using of which countries the constitution of the shall be corrected to a bright which is corrected upon protector with per using of which could be covered to the bright which is constituted to the shall be covered to the bright which is the shall be covered to the bright which is constituted to the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to the bright which is the shall be covered to t

454. In every auction pipe, mening there shall be injected as efficient auct on pipe, which diall be made of gavanued from piperg, and shall completely fill the opening and shall enter a nod be properly screwed and soldered to the top of the tank, and such pipe sins, not at any point be lower than where it caves the tank and throughout its course after it leaves the tank, stall be efficiently protective against fire or, afterference.

455 In no case shall the capacity of any such fixed tank exceed five hundred gallons

456. Every fixed tank used in any public or private garage for containing gasoline shall be placed underground, and the

By-Law top thereof stall be at levet three feet underground, and and 2728 tank shall be either solid) endoced with earth or jaked in a valid shall be either bestler solid. However, and the shall be either bestler solid to the tank and valid shall be either bestler solid top the tank and valid shall be either bestler solid top the tank and valid shall be with the shall be either did to floor. I the vasil and solid wastle valid bestler solid top floor the valid and solid wastle valid be with careful red for the period of the shall have rion washholds and covers for carannee of tasks but in so case shall any such evaluat to these located tasks but in so case shall any such evaluat to this located tasks but in so case shall any such evaluat to this located tasks but in so case shall any such evaluat to this located tasks.

bichway or place

6. We prevented by to soul from any fixed track used in mix in it, or my nat againgt for continuing gass, not what he of motal and shall be consider locating and shall be consider locating and shall be consider locating and the sillings of any each fixed facts in grantless, sould be due to means of the Blate paper and could not locate any analysis of the trait purpose, be excluded to the discharge locating and any analysis of the properties of the document under any propose, by complete to the results of the properties of the document under any time to mean and shall be done to day daylight and only by competent to the properties of the properties o

448. No gasoline shall be drawn from any portan elling gazoline, used in any public or private garage for containing gazoline, used from any fixed tank used in any such garage for containing gazoline, sare by means of approved suction pumps Lawip, a shaller fli sare with grand legs on the nozele, and antiomatic check valve activeen the pump and the nozele. In no case, shall there to arm return or waste pipe to the tank.

450 No fixed tank used for containing gasoline shall connect, either directly or indirectly, with any public or private sever main catch basen or pit within the limits of the City of Windupper

460. No person shall permit any such oil, fluid or material as is Lerein referred to, either by listelf or in combination with any liquid or solid, to flow into or enter any sewer, main sewer connection river, stream or coulee within the Limits of the City of Wimmiers.

- 461. In add tion to any other penalty, the sower conection. By-Law into which say such oil, fluid or material, as aforesaid, either by 7528 tief or in combantion with any highid or sold, shall be permitted to flow or enter shall be "losed up by and noder the direction of the City Engoner."
- 60) I sall pub-s and pri a size granges timer, analise praces and a littimest gent a "movemen, points on more than their size apart metal frequiseless as it is not overes, each containing at least apart metal frequiseless as it is not overes, each containing at least and their size of the size and shall are used for absorbing an gase one which may fall or the filtor or ground, and fore fore extragalishing suprisses a state of the size of their size of the size of the size of the size of the size of their size of the size of the
- 464. No person stall enouge or strike any matter or light, takes in he or the processions any lighted lattered has passed to rede, jupe eigen to registrict in one public grange, or tany princip and every constitution in the gallows eigenduction and procession of the procession place and matter at the entrance to and more discovering allowed in the procession place and matter at the entrance to except public grange was used to the procession place and the procession of the pro
- 465 > gasoline shall be allowed to remain in any open can it open receptacle. I any kind in, upon or about any public or private garage.
- 466 No change shall be made in the arrangement or con struction or engines operated by gasoune or zerosene oil in any building victions notice to and approval by the Inspector Notice of intention to introduce gasoline or kerosene engines.

- By-Law into building shall be given to the Euspector, who will make or 7528—cause to be made, an inspection of the proposed location, and if the same shall comply with the Winnipeg Charter and the Ry Laws of the City, will issue a permit therefor.
  - 467 MI races redicing attention to feed in grange and a studying and remained part of processing attention of the analysis of the studying and the contracted of three steer one or other redistribution, and true enforce, door of the contraction of the steer of the s
  - 68 No building fernative overceed shall we used as a put, fix gaving unless the same complex with the following conditions, neither also any ix is that put in following conditions in the same complex is the following condition, that is to say.
    (a) In case of buildings not exceeding one storey.
    - such buildings must not have any wooder, name or point in the convertion and must have all the external and parts salls made of vector stone is every other equally authorated and normbored be material and their doors must be watering to or crete floors, scuppered to a depth of at least of some commust the waterings to or crede floors, scuppered to a depth of at least of some commust be material.
    - (b) In case of buildings exceeding one storey in reight sich audiangs must be of fireproof construction throughout, save that their roots naw be revered with tin nor copper are slates, tiles felt and gravel or other reasonabilistic materials.
  - 469. From and after the passing of this By-Law, no building now or at any time hereafter erected shall be used as a public garage unless it complies with the following conditions, that is to say
    - or If t does not exceed one storey in leight, it must be a no wonden beams or posts in its or natraction, and it must have all its externa, and party walls made of brick or stone or some other equally substantial and .noon

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bustible material and its floors must be watertight concrete By-Law Floors, supported in a depth of AT LEAST SIX INCHES, 7528 and its not must be covered with tim, ron, zine, copper, slates, it es felt and gravel or other non-combustible

hateral

b) If it exceed one storey in height, it must be of fireproof construction throughout, save that its roof may be covered with its instruction experishers, they felt and graved or other non-combatible material.

470. In all jobs, it garages the person housing or sheltering antimobiles shall be we vertilated and stall be separated from all feed work repair or storage rooms and a stall and clevator ere course by brick fire walls, and fire doors and suit enses shall be provided for all inside and outside wall neprings, and in this connection a sorage room means a room wherein gooding is stored or kight.

471. No part of any building which, or gave part of which is used as a bote, tenement house or lodging house shall be used as a public garage.

32 Ye in the glorest recreted shall be used as a private gauge online to the use of the following road-time for the state of the sta

(a) If they do not exceed one storer in neight ther must are no wooden beause or posts in their construction and they must have all their extreal and party wails naice of berks or stone or some circ meaning statement and incombanule materia, and their floors must be water material and an extra consistency of the statement of the latency, and their roofs must be covered with tas, iron, zine, copper slates, then fiel and gravel or other non-combustible material.

(b) If they exceed one storey in height, they must be of fireproof construction throughout, save that their roofs

## ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

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may be covered with tin, iron, xine, copper, sates, tiers, felt and graved or other not combusilie material. Every private garage, which shall be used for the accommodation for any purpose of more than one automobile at time, shall be used for the accommodation with the provisions of sections 8-00 and 471 hereof one mit be same way as if it were a public garage, but this shall not apply to private garages now being used as such

 $473. \ \,$  All private garages now being used as such may continue to be so used

474. A building shall be deemed to be used as a pub.ic garage, within the meaning of this By-Law, if the same w any part thereof he used either as an automobile livery, or for accommodating any automobile (either free of charge pursuant to any undertaking given on sale or hire of same, or on payment of any fee or charge,, with standing room or accommodation for any period of time, however long or shart such period may be, or for the accommodation of any automobile in order to the letting or operating for gam of the same, or to the repairing teither free of charge, pursuant to any undertaking given on sale or here thereof, or on payment of any fee or charge, of the same, or the use of same in the instruction for gain or reward of any person in the use, management or reparation of automobiles, and the words 'automobiles' and "automobile' where used in this By-Law, shall be construed to mean and include automobiles, locomobiles and all other vehicles propered by any power other than muscular power, excepting traction engines and such motor vehicles as are run only upon rails or tracks, and the expression "public garage" where used in this By Law, shall be construed to mean and include any building which, or any part of which, shall be used for any of the proposes before mentioned in this section, and a building shall be deemed to be used as a private garage within the meaning of this By Law if the same or any part thereof be used for accommodating any automobile for any other purpose other than any of the purposes in this section before mentioned and the expression 'private garage' where used in this By Law shall be construed to mean and include every build no need for accommodsting any automobile and which shall not be a public сатаде.

- 475 It shall be the duty of all persons connected with any By-Law public or private garage and of an persons making delivery of gasoline to any nuclic garage or private garage to strictly observe the provisions relative thereto contained in sections 448. 449, 450, 411, 412, 413, 454, 455, 456, 457, 458, 462, 463, 464, 465 468, 469 47L 471 and 4.2, and all such persons shall ie habic for any preach of the observance thereof, but nothing in this sect on contained shall him that be deemed to limit in any way the Lability of any such person or of any other person whom s sever in respect of any breach or non-observance of any of the provisions of this By-Law
- 476. Provided that if an application be made for a permit to erec, a garage, and the majority of the owners of the property on the street in which it is proposed to creet said garage, pet too the Louncil against the erection thereof, the building Inspector shall delay the issue of said perion for a menth in enable the publishers to be heard by the Council, and the Council to deal with such petition
- 4. . Previded that all applications for the erection of public garages shall be referred to the Council before the permits for the construction of same be asseed.
- 478. No premises shall be used for the carrying on of any trade or business wherein gaseline or bearing is used in open vessels in quartities it incre than one pint at any one time unless the promises in a to a cach median or trade is carried on shall have first been naporter, by the Boldmer Inspector and found as him to comply as to the to lowing requirements o No premises shall be by ited by any artificial light
- other than incondencent clostric orbit which with all souther and cut offs connected therewith, shall be preman entry and properly fixed and located at a height above the floor of at least four feet
  - b) A, such premises shall be properly ventilated with year lators fixed and located in the wal. If the room or rioms in which such gasoline or berzire is used and connecting directly with the outer air. Such ventilators shall be placed in the wall at a height of not more than s x inches from the floor of such room or rooms.
    - to. The room or rooms in which such gasoline or

ERECTION AND REMOVAL OF BUILDINGS, LIKE LIMITS 12TC

LENGTH IS STORED, kept or used shall be heated either 37 hot pair hot water or steam and no open learth five. stores

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grates or other means of heating shall be permitted on such premises.

(d) No lighted lamit, candle lantern, turch or gas joi

- shall be permitted on such premises for any surpose what soever, nor shall any gas from be used on any such premises.
- 45°. No person shall rithe any material right or small an pine cigar (capacite) on an och premise and a notice tearing in letters at least lone inch and a lab high the words. V. Shinching shall be displated in a ron-spicious paire in said premise it shall be labalful for the words. Who have shall be labalful for the words of the shall be labalful for the person person of the parally thermality in profession, a reacting a majority of the parally thermality in profession of the reacting labalful for the person of the shall be labalful for seaters of this labalful for the parally thermality in profession of the reacting the shall be labalful for the parally thermality in profession of the reacting the shall be labalful for the person of the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the shall be labalful for the parally thermality in the parally the shall be labalful for the parally thermality in the parallel for the parallel for
  - 480. If up or rejectivin of such premises as afreeard the Buther Inspection flow that Inspect on flow that Inspect on flow that Inspect of going provisions of this Isystam control of the Isystam Control of
- 481. The term "hear ne" or gas sinc" wherever used berein, aball unan an product of pich can be any hydro-carbon liquid that will flash or entit as utiliamnable vapor below the temperature of eights-five degrees balarenbert. The Badding Irspect of shall locat and decide the flash as point.
- 482. In all evices where good no or newrine is less in or stored in any submight except on a thereoff in the City of Winninger in any quantities exceeding a require, but not exceeding for galaxity to seame is all but not exceeding or gard, but not exceeding of five galaxity exame is sail but not not out of might good and office on self-closing metal case or containers of an individual or containers of the containers of the

- 483. No vendor of gasoline or benzine shall sel, or deliver. By Law to any person gasoline or benzine in the quantities referred to 7528 in the foregoing section hereof unless such gasoline or benzines is placed in self-closing metal cars or containers of the kind referred to in the said section.
- 484. In no case shall any gasoline or benzine be delivered or carried into any house or other building in any open or uncovered can or other vessel.
- 485. No nerson shall noe or occupy within the City any buildage or place for manufacture of Lityrenting-refred petroleum oil or kerosene, hervane, heazed, camphane, freworks or other dangercus or eas. , fammable or explosive solutionees, or for the adapting of or higher or above, or other stranger of first and of the propose whatever or loaded carringes or she is suited that having chia and a permat from the City Conneil.
- 400. No person shall our at place in any store, grate or format or tax in bifuling or and thing fires an any dwelling bosses and or other molding with other (its, refined activosities) and because any or other molding with other (its, refined activosities) and because the property of the control of the property of the control and any other persons or inflammable unbatances provided always that providing the control of the

### GANCLINE V TOOK LIGHTING

- 487 No person shall use a comaintain in the City of Minnipeg any gason net again gas, ighting asstem for the purpose of lighting any building or any portion of such building unios and mill the said system shall have first been inspected by the Building Inspector and sproved by the Counting Inspector and sproved to.
- 488. V) gasolire tank used in connection with any such gason or apon gas lighting system shall be installed or main-tained inside any building
- 489 Any gaso are it gasoline apor lamp or lamps used in or neet on with any such lighting system shall be placed and fixed at a distance of not less tions (not not-y-four meties from any woodwork in such building

- 19-Law 450. No p.p.ug or tubing used in connection with any such pages and process and
  - 491. Every pressure tank and gasoline tank used in connection with any gasoline vapor gas highing system shall be placed outside the building to be lighted by such system, and shall be enclosed in a strong to w, well ventuated, the lid of which shall be securely locked at at, times except when such tank or tanks is or are being charged or filled.
    - 402 It shall be the darv of the shalding Inspector to me peet from time to tome and me in case as soon as possible after being requested so to do, every vajor gas lapting system antibled or mantanded in our binding or portion thereof in anythicities. First such gasol ne vajor gas lapting system challed to inspections. First such gasol ne vajor gas labting system daught from the state of the state of the system and the support of the system and the support of the system as the state of the system as cases where such system as resonant fat that offset is to the owner on occupier of the premiers wherea much system as installed or mantaned.
    - 493. Any person wis banders or obstracts she said Bandmag Inappetor is, making such impered on ewho relasts to permit any saich system used by him to be tested or who is guitty of any bream of the provisions of the foregoing paragraps's Nos 487 to 492 inclusive, shall be guilty of an offence against this By Law, and shall upon conviction three for he liable to the penalties hereisofter presented for breaches of this By Law.

# GAS WORKS

494. Yo person, firm or corporation shall, build or erect any gas worst, including any retorte, serubbers, purifiers or gas hoders, within the limits of the City of Wainipeg without first applying for and obtaining the permission of the City Courte, so to do. Every application to the City Courtel, or such perm soon shall be accompanied by plans and appecine-

tions showing the site on which such gas works are to be By-Law erected, and illustrating the features of construction and equipment thereof.

The Curre, may by resolution grant such application. As nermine in grantes as aforesaid shall be subject to the provisions of the Vy Law, so far as the same are applicable therety, and to the provisions of the Winnipeg Charter, and all Acts amending the same and to all existing and future By-Laws of the city of Winnipeg in so far as applicable thereto in force from times to take

405 \ gas verks sha be erected a continued in that portion or the City of Winnipeg described as follows

All tast portion of the City of Winn,peg contained within the following limits, namely. Commenting at a point in the centre line of the Pembira Road where the centre line of thest Avenue meets the same thence westerly on a straigh, her to and along the centre line of Flor Avenue and the proc at thereof to the centre line of Cambridge Street, thence watherly along the centraline of Cambridge Street to the centre line of Lennon Avenue produces. There westerly along the centre one of Lennon Avenue a.u. t. e products a thereof to the western C.tv limits. thence nortreely along the western C to lim to to the centre line of Portage Avenue, thence easterly following along the centre line of Portage Avenue, and the production thereof to the centre line of Hargrave Street. thence southerly along the centre line of Hargrave Street and the production thereof in a straight line to the centre line of the Assin bome River, thence easterly along the centre line of the Assim boing River, to where it meets the centre and of Main Street produced, thence southerly along the centre line of Main Street to the centre line of River Avenue, thence westerly along the centre one of River Avenue to the centre line of Clark Street thence southerly along the centre line of Clark Street to the centre line of Wardlaw Avenue, thence wester, y along the centre line of Wardlaw Avenue to the centre line of Pembina Street thence southerly along the centre line of Pembina Street to the centre line of Corydon Avenue thence westerly along the centre line of Corydon Avenue to the

FRECTION AND REMOVAL OF BUILDINGS FORE LIMITS. FIRE

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By-Law centre line of the Pembina Road, tience southwesterly 7528 along the said Pembina Road to the centre line of Pleet

496. Should any gas works be, in the opinion of the Building Inspector of the City constructed or placed in contra vention of this dy-Law the complete pulling down or remeval thereof is hereby authorized.

- 407. Sure gas works shall be completely pulled down or removed, in manner heremafter set eat, at the expense of me owner thereof, and the cast of the same shall be certified by the said Bunding! Inspect to the Tax Collector and be added to the taxes on the land occupied by saiding as works and collected as other taxes.
- 408. The said Bailding Importor is beech required to mith the where claim such gas works constructed or placed contrast in time. See Law Claim, the name must not be continued, as missed in pulled down is removed, and asso, that in the event of the state of the sign removed by such covere, the same will be pulled down or removed and the sequence as aforesal.
- 499. In the event of the owner of are such gas works tailing to pull down or remove the same after notice to do shall have been given to him the Building Impector of the City is hereby act torized to cause the same to it pulled down or removed, and the cost thereof shall be recovered as heren before provided.
- 500. PRIVATE STABLES. Shedd any person, from or corporation be derived so constructing a stable to accommodes wore than four treas, earn person, from or expression of the common stable to the common stable stable to the common stable stable to common stable s
  - 501 LIVERY AND BOARDING STABLES. No hvery stable, sale feed or boarding stable or stable in which horses

are to be kept for aire of express, larguises, shall be established. By-Law or maintained within any of the following defined areas of the 7528. City of Winnings, viz.

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WARD ONE Commencing at the intersect in of the west the cr Mani Street with the waters, edge on the sonth side , the Assir beare River thence scutherly along the wester's limit of Many Street to a point reacts ring feet southerly from the southern I most River Avenue abence westerly paradel and the southerly hout of River Avenue and at the ur term rectangular distance of mincises no feet therefrom this point in the wester's limit of Wood Street thence witherly along the westerly amount Wood Street and continuing southerly in a straight line timingle Lets 153 and 34 Plan 52 D G S 36 St. Berndace to the south I'm of Snadina Avenue, theree west rly along the southerly limit of Studing Avenue to the west line of Clark Street, theree southerly along the westerly limit of Clark Street to the morningly mit of Wardlaw Avenue. thence westerly along the nurtherly mut of Wardlaw Avenue to the eastern limit of Joseph Street, theree southerly a my trie easterly limit of Lisenh Street to a point one hundred and twents feet south from the southerly limit of Gertrade Avenue, thence wosterly, parallel with the souther's Limit of Gertrude Avenue and as the nu form rectangular distance of one handred and twenty feet there from to a joint me bunded and theres feet easterly from the easter's Louit of Persona Street, thence southerly paralle and distant me handred and thirty feet easterly from the easterly limit of Pembina Street to the norther-y limit of Lorsdon Avenue, thence westerly a cng the northerly I mit of Lorydon Avenue, to a point, me bundred and theta feet westerly from the westerly 'anit of Amelia Street thence nertherly parallel and distant one hundred and there's feet northerly from the northerly limit of Ameria Street and continuing para el and at the univeniment angular distance if one handred and thirty feet westerly from the westerly heat of Harri w Street to its intersection at one hundred and threty feet westerly from the wester's limit of Mitchell Street - thence northerh, at the amferir rectangufar distance of one hundred and trurty feet wester vitr in the westerly limit of Mitchell Street to the waters ruge in the

.34 FRECTION AND REMOVAL OF LUILDINGS FIRE LIMITS, ETC.

By-Law 7528 south side of the Assimboine River, thence westerly along the waters edge (on the south side of the Assimboine River, downstream to the place of commencement

WARD T VO. All that area bounded in the east side by Main hitreet, on the north by Portage Acesus on the west by Jane setween. Young and Spence Streets and on the south by the Assimboine River.

WARD , AREL - All that area bounded on the easby the ant-between Young and Spence Street on the north b) Portage A cause, on the west by Maryand Street, and on the south b) the Asimirone River, also all that area counded on the east side b) Maryland Street on the north b) Norto Dama Asimirone River Dama Street and on the south by Portage Avenue, on the west by Victor Street and on the south by Portage Avenue.

WARD FOLR. All that area c. mine cang as a point two handred and sixty four feet west from the westerly lim t of Princess Street on the southers amir of Asexander Avenue, thence westerly along the southerly ...m t of Alexander Avenue to the westerly limit of Isabel Street. thence southerly along the westerly hour or Isabel Street to the southerly omit or file's Avenue, thence easierly along the scatherly limit of Eq. 1 Agenue to the westerly I'm t of Isabel Street, thence southern along the westerly buy t of sabel Street to the norther t I mut of Notice Lame Avenue to the westerny limit of Acelaide St eet tience northerly along the westerly amit of Adea or Street to the southerly Limit of William Avenue, thence wes erly along the souther v., out of William Averue to a point twentyfive seet west from the westerly armst of Adela de Street, thence in a direct ane norther), to the point of commencement.

WARDS FIVE AND SIX. Al, that area, commencing at a point one bunded lete assets from the casets from the many five from the five f

hundred feet distant wester,y from the westerly ...mit of By-Law Main Street, thence southerly parallel with the westerly 7528 Tent to Mais Street and at the uniform rectagular distance of one hundred teet westerly therefrom, to a point in the north line of Point Dougna Avenue to the point of

402 LAUNDRIFS No public laundry shall be erected, established or maintained within the area of the City bounded an follows:

commencement

On the north by a , he drawn parallel with and distant northerly one hundred feet (100 feet) from the northern ,mit of Broadway, from a point one hundred feet (100 feet) east of the eastern 1 mrt of Colony Street to the western lim t of Lot Sevents-one (71), St James, and the porthern , mit of the lane south of and adjoiring Lots One to Twelve (1.12) D.G.S. Sixty nine and Seventy (69-70. St James Ann 1 ght Hundred and Forty two (842), and the straight production of said last mentioned northern I mit to a noint one hundred feet ,100 feet) west of the western limit of Home Street, on the south by the Assonsome River, on the east by a line drawn paralfel with and distant can erly one hundred teet 100 fects from the eastern cont of Colony Street and on the year by a line drawn parallel with and distant wester, y one hundred feet .00 feet) from the western Limit of Home Street

self. IL MBTR. AAD WOOD 3. kBDs. It alian, at lain, that In the Int. and the Int. the Int. and the Int. and the Assimants the enter upon all fumber rands in only aprils and at. Interplaces where wood in the Interplace with a self-and interplace with the provisions of the Ib-Law, and to retrieve entry lance with the provisions of the Ib-Law, and to retrieve entry lance with the provisions of the Ib-Law, and to require the owners of occupies to these such presentationary measures against five as war be necessary and proper.

No lumber or wood in any wood with of humber sand small.

No involve or wood in any wood yard or lawber yard shall be pield within a datasact of ten feet from any baiding in the w.n.ty of such wood yard of familier yard, wor pilet to a height grainer than eight lest next to any street or lane or right-of way of any ran,way, and all wood and hamber yards shall axe roads passing from front to rear at least vedee feet wide and not more than thirty two feet apart. I unwber piles shall not exceed the twolf year than the pilet had been shall not exceed the two feet apart.

### 136 Exection and Removal of Bulldings Pire Limits, Fre

- By Law exceed fourteen fret in height, unless permission to exceed 7528 such height shall have ocen obtained from the Committee on Fire Water Light and Power. After the passing of this By-Law no lumber yard or wood yard shall ic established within the limits anown as the Inside First Class Fire Limits.
  - 904 ANHES to person shall place or keep any ashes, removed from any store or freplace, in any wooden box or receptacle or within three feet of any wooden partition in his house or building, or in any outdoose or shed.
  - 60 I. LOLITING P. REE. N. NTR. ... 1N. No person what rear or saudie a feer of feer do rearras for a rice to be made there or saudie a feer of feer do rearras for a rice to be made person feel that the section shall not apply to feer under by no smultip planners and other mechanis where the use of a fee a necessary for the purpose of asoling the grate. All, to be a necessary for the purpose of asoling the grate. All, to be a necessary for the purpose of asoling the grate. All no feet was not apply to the purpose of asoling the grate of the necessary for the purpose of asoling the grate. All no necessary for the purpose of asoling the grate of the necessary for the purpose of a soling the grate of the second of the grate of the grate
  - in which "are humenes or trade a carried on wherein large quantities of eight business, waste paper and other common ride waste materials of a unifor nation are provided, shall be the material of a unifor nation are provided. The shall time times e eye work were so with building, shop or yard in strated more than one mandered feet from the nearest be doing thereto. No lightled coulder shall be agent to any sacts of the building, now shall may solve at used therein tubes the same it was the provided of the shall be about the same and the sace pupe protected in the manner provided in the Dy Law.
  - 307 STRII/19ED BARK AND SAMIDLST Everp person owning or occuping any store, factory, worskip or structure or any part thereof, or any and where bark is stripped from piles or where piles are cut for black participations, shall remove all stripped bark and sawdoot from such places at cases once during every working day in the week.
  - +08 HAY STRAW, PTC No person or persons shall place or permit to be placed any hay, straw or other like com-

ground, within one hundred feet of any building unless the By-Law same as securely covered and no person shall have or keep hay 7528 straw, cotton, nenp or wood shavings or rulesh in states or piles within the City, without secures, covering the same so as to efficiently ortest far same from thing sandres or other

309. VACANT BUILDINGS. The doors and windows of every vacant and unoccupied building shall be securely fastened and closed. It shall be lawfu, for the stailding Inspector or his

sources of danger from fire.

Avesants to enter upon and mappet all vacant and unoccupied buildings to it up upmose of accentioning whether the same are unput to the same are supported to the same are supported to the ung stati, we found to be in an unsafe condition and a minuse to acceptance of the same are supported to the buildings to the asserted to the same are supported to the buildings to the condition of the same are supported to the buildings of the preference of the same are supported to the buildings of the condition of the same are supported to the same are supported to continue to the same are supported to the same are same are supported to the same are supported to the same are supported to the same are same are supported to the same are same are supported to the same are supported to the same are suppo

Department and the Officers of the First Department, of the ty of W mappe, to make reports to the Budding Inspector of all vacest and unoccusped beating a having open does or windows or other openings therein, likely to be or become a menace or source of danger to the surrounding property either by fire or otherwise.

5.0 When the owner or agent cannot be found, the posting of such notice upon said building for twenty-four hours shall be sufficient notice hereunder.

5.1 Provided that should such work be urgent and be required to be dore without the delay necessary to give notice, the said work may be done without nettice, and the cost thereof recovered as hereinbefore provided.

512 SEWER AND WATER CONNECTIONS. Any building hereafter erected apon any property which fronts or Day I am . . . . .

By-Law abuts upon any street or .ane .ii which both sever and water 7528 mains exist, shall be connected with water and sewer mains.

- 33 PT CLOSETS. In the case of water casers, proved and pray valles, where sever and more connection cannot be matalied as provided, in the previous section a converted outer pit, and with crement on a to be perfectly water, and it is provided and such pit that like at casts from feet long, and the provided and such pit that like at casts from feet long, the case of the contract o

  - has class comis, within which no lumber as evoid years shall be established, and within which to wooden anode, gala hazued astorage seeds, frame authorises, private garages or other structures of as it was divisitively within the profession of the structures of as it was divisitively which or party endoced shall be everted, and within which as profes has be constructed with occurrents of momentative matching to concerning of momentatively matching the construction of buildings and the criterione from and failure.

Commencing as a point of interestion in the centre has of Henry Access with the waters' right of it field. River 'thence western' along time centre him of Henry Access to its unterestion in a Henry Henrice in a southern's direct and the production thereof with the centre him of Greated with the production thereof with the centre him of Greated Street in the Centre has of Greated William (Access to the Access to the Access to the Access to the Centre has of Greated Street in the Centre has of Greated Street, the Centre has of Greated Street, the Centre Street, the Access to the Centre Henry Centre Street, the Centre S

the Assumboine River, thence along the waters' edge of By-Law the Red and Assumboine Rivers to the point of 7528 commencement.

139

510 FIRE LIMIT. The following defined areas of the city of Winnipeg shall be and e known as being within the First Class Fire Limits, that is to say.

Commencing at a point where the northerly am't of Notre Dame Avenue Last meets the waters edge of the Red River, thence tolowing the waters' edge along the wasterly side of the Red River downstream to where the same a met by the sentre one of Genez Street produced in a straight one sont ierly thereto, thence northerly in a straight line to and alors, the centre, one of Comez Street to a point one hundred and thirty feet southerly at right angles from the authoris 1 mit of Higgins Avenue, thence easter, and northerly as a uniform rectangular or radial distance of one hundred and chirty feet from the southerly and easterly limit of Lyggins Avenue to the waters' edge I tre ned River, thence western along the said waters' edge to a point one hundred and thirty feet westerly at right angles from the wastern limit of taggins Avenue, thence sour erly and westerly at a uniform rectangular or radial distance of one hundred and thirty feet from the westerly and nor her's hir to I Higgins Avenue to the certife and of femer Street at resaid, thence northerly, following along the centre line of Gomes Street and the straight production thereof to the centre line of Disraeli Street, thence easterly along the centre line of Disraeli Street and the straight production thereof to the waters' edge of the Red R yer, thence portherly along the waters' edge of the Red River downstream to the northerly boundary of Lot 4 of the Parish of Kildonan thence westerly along said northerly boundary to a point one bundred feet westerly at right angles from the westerly limit of Aikins Street, or the straight products in its otherly thereof, thence southerly, and at a nuclery rectangular distance of on, hundred feet westerly from the westerly lim t of Akins Street, or the straigh, products in thereof to the southerly limit of Athale Avenue thence westerly along the southerly limit of Athole Avenue to a point one hundred feet we terly at right angles from the westerly lim t of Powers Street, thence By-Law 7528

southerly at a uniform rectangular distance of one hundred feet westerly from the westerly limit of Powers Street to a point one hundred and thirty two feet northerly at right angles from the northerly 1 mit of Anderson Avenue, thence westerly at a uniform rectangular distance of one hundred and thirty two feet norther a from the nor heely limit of Anderson Avenue to a point minety-nine feet westerly at right angles from the westerly limit of McGregor Street thence southerly at a uniform rectangular distance of ninety nine feet westerly from the westerly limit of Mc Gregor Street to a point one hundred and ten feet northerly at right angles from the northerly limit of Selkirk Avenue thence westerly at the uniform rectangular distance of one hundred and ten feet nurtherly from the northerly omit of Sellork Avenue to the centre line of Sinclair Street, thence southerly along the centre line of Sincla " Street and the straight production there it is the centre line of Higgsins Avenue thence westerly along the centre line of High gins. As once and its straight production to the centre line of McPhillips Street thence southerly along the centre line of McPailline birect to a point pinets nine feet perthers at right angles from the nighterly amit of Notre Dame Avenue, thence westerly at the engleon rectangular distance of notes nine feet northerly from the northerly I must of Notice Dame, Avenue to the centre line of most of way if the caracian facific Railway Southwestern Branch Plan 374, then e witherly along the centre line of the right of way of the Canadian Pacific Railway Southwestern Branch to a point one hundred and thirty feet southerly as right angles, rim the watherly and if Notre Dame Avenue home, casterly and a the unform rectangular distance. I me handred and thirty feet wathersy from the sutherly not a Note Dame Avenue is a point one handred and thir y seet westerly at right angles from the vester's him to that her mistreet, thence withherly and at the ne form a ctangular costoner. I say buildred and thirts set westerly from he western family of Ar mater Street to a court on, sendred and there free normers at most angles to matte methods, out of Portage Avenue, thence westerly and at the up from rectangular distance of the undered and the state of the northern the portherly but the Portage Avenue to the centre line of Strathcona Street, thence southerly along the centre line of Strathcona Street By-Law and the straight production thereof to the waters 'edge of the Assonibone River, thence easterly along the waters' edge of the Assimboine River downstream to where it meets the centre line of Arlangton Street, thence southerly in a straight line crossing the Assimboine River to the point where the centre line of Mitchell Street meets the waters edge of the Assimbone River on the south side thence southerly along the centre line of Mirchell Street to its intersection with the production northerly of the centre line of Harron Street, thence southerly in a straight line to and following along the centre line of Harryw and Ame, a Streets to a point one hundred and twenty feet souther year right angles from the southerly 1 not of Jessie Avenue, theree easterly and a, the unity rm rectangular distames of one hundred and twenty feet scatterly from the souther's heart of less e. Avenue to the centre line of Lalar Street theree southerly along the centre line of I slace Street to the centre line of Rosser Avenue, thence easterly along the centre line of Rosser Avenue to a point me hundred and thris feet western at right angles from the westerly limb on ma Street, thence we needly and at the unit irm rectan, dar locance of the handers and that feet wester s from the seaster's limit of Penn ma Street to the northerly hir t. Nale neite. Account thence casterly and some said norther a limit of havemore Avenue and the straight production there for a point one hundred and thirty feet easterly at rucht angles from the easterly limit of Pembina Street thence a riberly and at the muferm rectangular distance I see hundred and thirty see easterly from the easter , but if Peru na Street to the centre line of McMidan Avenue, there e easterly along the centre line of McMillan Avenue to the production southerly of the centre here. To ext. Street, thence metherly to and along the centre line of I wept Street and the production thereof to the centre line is Sped na Avenue, thence easters a mig the centre line of Spadota Avenue and its straight time duct in to the waters edge of the Red River Tremet of w mg the waters edge on the west side of the Red R verdown stream in a northerly direction to the point of commencement

By-Law 517 SECOND CLASS FIRE LIMITS. The following 7528 defined areas of the City of Winnipeg shall be and be known as being within the Second Class Fire Limits, that is to say

All those lands lying north of Portage Avenue, bounded on the north by a line dawn parallel with and distant northerly two hundred and sixty feet from the northerly limit thereof, on the east by a line drawn parallel with and distant one hundred and thirty feet westerly from the westerly "mit of Arlington Street, and on the west by the centre line of Strathcona Street, excluding therefrom those portions thereof contained within the heretofore described First Class Fire Limit All the lands lying on both sides of Notre Dame Avenue between two lines drawn on each side of said avenue, and at a up form rectangular distance of one hundred and therey feet northerly from the northerly limit of said avenue and one hundred and thirty feet southerly from the souther,y limit of said avenue, extending from the centre line of the right-of way of the Canadian Pacific Ranway Southwestern Branch, Plan 374, to the westerly limit of Keewatin Street and its straight production southerly

#### STREET ALIGNMEN

518. Upon lots fronting or abutting or adjoining upon Blanchard Street, throughout in the City of Winnipeg, no building or other structure shall be erected or placed within a distance of twenty feet measured at right angles from the street.

319 Upon lots fronting or adjoining or abiliting upon Central Aretine and upon lots fronting, adjoining or abiliting upon Assanboine Avenier in the area of the City of Winapeg bounded on the north by Cornish Avenie and not be south, east and west by the Assanboine River on either side of the said avenie, no building or other structure shall be receted or placed within the distance of thirty feet measured at right angles from the street line.

520. Upon lots fronting adjoining or abutting apon Central Avenue in the City of Winnipeg upon either side thereof no building or other structure shall be paced within a distance of thirty feet measured at right augles from the street line.

- 521 Upon the obs fronting, adjoining or abuting, upon that By-Law portion of Asim-boine Avenue, soich of Blanchard Street and 7528 east of Centrus, Avenue in the City of Winninger, on either side and the Company of the City of Winning or either side detailed by the Company of the City of the Company of the detailed of the City Cet measured at right ingles from the afterer
  - \$22. Upon lots fronting abutting or adjoining upon Direflester venue between Westworth and Liac Virtee in the City of Winning no his dring or other structure shal, be erected or paced on either side of said avenue within a distance of thirty feet measured at right angles from the street line.
- 523 NON-COMPLIANCE WITH BYJLAW AFTER NC., ICE. In all cases not otherwise specified in this By Law when the building Inspector may detect any imperfection, improper construction defect, amission or neglect by which any build no ir part thereof may become dangerous to the pub. o satery by shall immediately no is the owner agent or person having charge or possess on of such building or part thereof to remed such imperfection, moroper construct on defect omission or neglect with a five days after the service of such notice mount m, and if such owner agent or person having charge or possession of such building for five days after the receipt of such notice neglects to comply with the same, he shall be subject to the penalties of this By I aw and every subsequent failure or newlect for twenty four hours after any and every subsequent notice shall be deemed a new and subsequent offence, and shall render the owner, agent or person has ng the charge or possessom of such building as aforesaid, so notified and making default, hable again to the penalties of this By-Law
- 53 PENALTILS FOR RECALL OF THIS BY LAW, appears gainly of a breast of any of the provisions of the By Law, shall unless otherwise specifically grow-field for by any Br. Law, shall unless otherwise specifically grow-field for by any period of the break that the problem Sing state or any Justice of splicates of the Peace Rawing pursulation in the City of Wannjeng, forfer and pay at the discretion of the anal Mance, Police Magnetine Institute or deliberation and the control of the split of the spl

### 44 ERECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

By-Law thereof it shall be awful for the Mayor Police Magistrate or 7528 Justice of the Peace convicting as aforesaid to issue a warrant under his hand and sea, and in case the said Mayor. Police Magastrate Justice or Justices of the Peace or any two or more of them acting therein then under the hand and seal of one of them, to levy the said penalty and costs, or penalty, or costs only by distress and sale of the offender or offenders goods and chatters, and in case of no sufficient distress to satisfy the the said penalty and costs, or penalty or costs it shall be lawful for the said May or Police Magistrate, Instice or lustices of the Prace convicting as aforesaid, or any one of them to commit the offender or offenders to the common gaol of the Eastern Judicial District of Manitoba, or to the lock up house in the City of Winnipeg, for any neriod not exceeding twenty-one days. unless said penalty and costs, or penalty or costs be sooner paid.

## BY-LAW No. 7656

A By-Law of the City of Winnipeg to amend By-Law No. 7528, , being the Winnipeg Building By-Law for 1913.

[Passed April 7th, 1913.]

The Manuspal Council of the City of Winnipeg, in Council assembled, enacts as follows

1 By Law No 7528 is hereby amended by striking out Section 154 thereoi and substituting therefor the following.— 'REINLORGED BEICKWORK. Whenever an approved.

REINFORK ED BRICKWORK. Whenever an approved remlorement is used and laid in the manner hereafter described the dimensions given for the thickness of walls may be reduced as follows, viz.—

In all walls of seventeen, 17, inches and less in thickness.

a reduction of four (4) notices may be made. In a, walls of trents one (2) unkness and over a reduction of mus (9) netices may be made. Prov.det however, that no such rendered each shall have a greater vertical height than thrty sax (36) feet writerial being merrisated four (4) inches in thickness. Such reduction shall be in accordance with and as illustrated by the following table:

TABLE OF WALL THICKNESS WHEN REINFORCED
No of Foundation

Storeys	W	n/ll4										
	Ntone	Hrie	k let	Red	3rd	411	5th	010	7th	841	911	±01/h
	101.	LIB.	_ m	175.	.00	111.	150	18.	in.	.6.	100.	lis.
One	18	9	9									
Two	20	9	9	9								
Three	22	13	13	9	9							
Four	24	13	13	13	9	9						
Live	27	17	13	13	13	0	9	,				
Six	30	17	17	13	13	23	9	9				
Seven	35	21	17	17	13	13	13	9	9			
Eight	35	21	17	17	17	13	13	13	9	9		
Nine	38	25	21	17	17	17	13	13	13	Q	0	

40 25 21 21 17 17 17 13 13 13 9 9

Ten

# ERECTION AND REMOVAL OF BUILDINGS, PIRE LIMITS, FYC

By Law 'One layer of rend overment shall be used for every layer of the height shereof, and shall be from the well and for every second course of the height shereof, and shall be firmly bedded in the mortar joints. The renforcements shall be continuous, and worse a joint occurs in same the ends shall be lapped at least six. 60

2 Said By Law No. 7528 is hereby further amended by striking out Section 516 thereof and substituting therefor the following.
5.6 FIRE LIMITS: The following defined areas of the

5.6 FIRF LIMITS. The following defined areas of the City of Winnipeg shall be and be known as being within the First Class Fire Limits, that is to say

'Commencing at a point where the northern limit of Notre Dame Avenue Fast meets the waters' edge of the Red River, thence following the waters edge along the westerly side of the Red River down stream to where the same is met by the centre , so of Gomez Street produced in a straight line southerly thereto, thence northerly of a straight line to and along the centre line of Gomer Street to a point one hundred and curry feet (130) southerly at right angles from the southerly lim t of Higgins Avenue, thence easterly and northerly at a uniform rectangular or radia, distance of one hundred and thirty feet ,130, from the southerly and easterly lim t of Fliggins Avenue to the waters edge of the Red River, thence westerly along said waters edge to a point ore hundred and thirty feet (130) westerly at right angles from the westerly umit of The gins Avenue thence southerly and westerly at a uniform rectangular or radial distance of one hundred and thirty feet (130) from the westerly and northerly and if Higguns Avenue to the centre line of Gomez Street aforesaid thence northerly following the centre line of Gomez Street and the straight production thereof to the centre line of Disrael: Street, thence easterly along the centre line of Disraeli Street and the straight production thereof to the waters' edge of the Red River, thence northerly along the waters' edge of the Red River down stream to the north erly boundary of Lot 4 of the Parish of Kildonan, thence westerly along said northerly boundary to the western Innst of McGregor Street, thence southerly along said

76%

western limit to the northern limit of Lot Three (3) of said. By-Law Parish, thence westerly along said northern limit to a nour me hundred (100) feet westerly from the westerly lumn of Sonday Street, thence watherly at a uniform rectangular distance of the hundred 100, feet westerly from the westerly brost of Sinclair Street and the straight production thereof to the centre line of Aggins Avenue, thence wester's along the sentre one of Higg as Avenue and its straight products n to the centre line of McPhillips Street thence southerly along the centre line of McPhillips Street to a north mucty nine (99) feet northerly at right angles from the northerly limit of Notre Dame Avenue, thence westerly at the and em recangular day tance of masty nine. 90) feet northerly from the northerly hmit it Notes Jame Avenue to the centre bite of right of was to the Canadian Pacific Railway Southwestern Branch. Plan V4 thence withork along the centre line of the right dway of the canadian Pacific Railway Southwestern branch to a point one bundred and thirty (130) feet southerly at right angles from the southerly limit of Note Dame Avenue, thence easterly and at the anif rm restangular distance of one hundred and thurs (130) teet contherly from the conther's limit of Notre Dame Avenue to a wint one hundred and there. 1801 seet westerly at mehr angles from the wester's long of Arlington Street. thence southerly and at the inform rectangular distance of one hundred and thirty (30) feet westerly from the wester's limit of Arlangt in Street to a point one hundred and thirty 130) feet northerly at right angles from the morehedy heart of P stage Avenue, thence westerly and at the uniform rectangular distance of one hundred and thirty (130) test northerly from the northerly limit of Postage Avenue to the centre line of Strathcona Street, thence southerly along the centre line of Stratic on Street and the straight production thereof to the waters edge of the Assimboine River thence easterly along the waters edge of the Assaultoine River down stream to where it meets the centre I ne of Arlangton Street, thence wintherly in a straight line or some the Assimarine River to the ment where the centre line of Mitchell Street meets the waters edge of the Assundiouse River in the south side.

### ESECTION AND REMOVAL OF BUILDINGS, FIRE LIMITS, ETC.

y-Law 7656 thence southerly along the centre line of Mitchell Street to its intersection with the production northerly of the centre line of Harrow Street, thence southerly in a straight line to and following along the centre line of Harrow and Amelia Streets to a point one hundred ,100) feet souther,y at right angles from the southerly hout of Fleet Avenue. thence easter, v and at the aniform rectangular distance of one hundred feet (200) southerly from the southerly lim t of Fleet Avenue to a point one hundred and thirty feet (130) westerly at right angles from the westerly land of Pembina Street, thence southerly and at the uniform rectangular distance of one hundred and thirty (130) feet westerly from the westerly limit of Pemoina Street to the northerly limit of Ky emore Avenue, thence easterly along said northerly I mit of Kylemore Avenue and the straight production thereof to a point one hundred and thirty (130) feet easterly at right angles from the easterly limit of Pembina Street, thence northerly and at the uniform rectangular distance of one hundred and thirty (130) teet easter,y from the eastern ...mit of Pembina bireet to the centre line of McMillan Avenue, thence easterly along the centre line of McM, lan Avenue to the production southerly of the centre line of Joseph Street, thence northerly to and along the centre line of Joseph Street and the production thereof to the centre Line of Spadina Avenue, thence easterly along the centre line of Spadina Avenue and its straight production to the waters' edge of the Red River. thence following the waters' edge on the west side of the Red River down stream in a northerly direction to the point of commencement."

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